8-557

198357

Access DB# _____

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Richard Schnizer Examiner # : 76557 Date: 8/11/06
Art Unit: 1635 Phone Number ~~30~~ 2-0762 Serial Number: 09/627,787
Mail Box and Bldg/Room Location: 2C18 Results Format Preferred (circle): PAPER DISK E-MAIL
2D30

If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

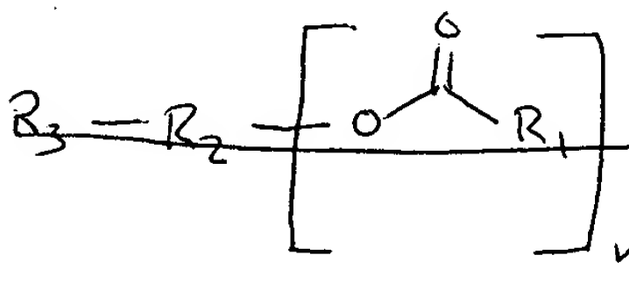
Title of Invention: _____

Inventors (please provide full names): Eugen Uhlmann, Beate Greiner, Eberhard Unger, Gisliniche Gothe, Marc Schwerdel

Earliest Priority Filing Date: 7/28/99

For Sequence Searches Only *Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Please search the structures in claim 9, attached, ~~i.e.~~



~~wherein R_1 is methyl or t-butyl~~

~~n is 1 or 2,~~

~~R_2 is one of the 11 structures~~

~~(F_1-F_{11}) set forth in~~

claim 9, and

~~R_3 is anything~~

****

STAFF USE ONLY

Searcher: _____

Searcher Phone #: _____

Searcher Location: _____

Date Searcher Picked Up: 8/15/06

Date Completed: 8/18/06

Searcher Prep & Review Time: 760

Clerical Prep Time: _____

Online Time: 130

Type of Search

NA Sequence (#)_____

AA Sequence (#)_____

Structure (#) _____

Bibliographic _____

Litigation _____

Fulltext _____

Patent Family _____

Other _____

Vendors and cost where applicable

STN ✓

Dialog _____

Questel/Orbit _____

Dr.Link _____

Lexis/Nexis_____

Sequence Systems _____

WWW/Internet _____

Other (specify)_____

PTO-1590 (8-01)

STIC Search Report
Biotech-Chem Library

STIC Database Tracking Number: 198357

TO: Richard Schnizer
Location: REM-2D30/2C18
Art Unit: 1635
Friday, August 18, 2006
Case Serial Number: 09/627787

From: Saloni Sharma
Location: Biotech-Chem Library
REM-1A64
Phone: (571)272-8601

saloni.sharma@uspto.gov

Search Notes

Examiner Schnizer,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Saloni Sharma
Technical Information Specialist
STIC Biotech/Chem Library
(571)272-8601

Search and Information Resources Administration

=> file caplus
FILE 'CAPLUS' ENTERED AT 15:56:08 ON 18 AUG 2006

FILE COVERS 1907 - 18 Aug 2006 VOL 145 ISS 9
FILE LAST UPDATED: 17 Aug 2006 (20060817/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html
'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

```
=> d his nofile

     (FILE 'HOME' ENTERED AT 10:31:52 ON 18 AUG 2006)

     FILE 'REGISTRY' ENTERED AT 10:31:57 ON 18 AUG 2006

     FILE 'STNGUIDE' ENTERED AT 10:32:13 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 10:33:07 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 10:35:15 ON 18 AUG 2006
L*** DEL         STRUCTURE UPLOADED

     FILE 'STNGUIDE' ENTERED AT 10:35:42 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 10:36:29 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 11:14:26 ON 18 AUG 2006
L1               STRUCTURE UPLOADED
                 D QUE L1

     FILE 'STNGUIDE' ENTERED AT 11:15:00 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 11:15:56 ON 18 AUG 2006
L2               STRUCTURE UPLOADED
L*** DEL         STRUCTURE UPLOADED
L3               STRUCTURE UPLOADED
L4            10 SEA SSS SAM L1
L5             1 SEA SSS SAM L2
L6             7 SEA SSS SAM L***
L7             7 SEA SSS SAM L3

     FILE 'REGISTRY' ENTERED AT 11:25:02 ON 18 AUG 2006
L*** DEL         STRUCTURE UPLOADED
L8            18 SEA SSS SAM L***

     FILE 'REGISTRY' ENTERED AT 11:25:59 ON 18 AUG 2006
L*** DEL         STRUCTURE UPLOADED
L9            18 SEA SSS SAM L***

     FILE 'STNGUIDE' ENTERED AT 11:26:17 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 11:26:58 ON 18 AUG 2006
L*** DEL         STRUCTURE UPLOADED
L10           17 SEA SSS SAM L***

     FILE 'STNGUIDE' ENTERED AT 11:27:16 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 11:32:44 ON 18 AUG 2006
L11              STRUCTURE UPLOADED
L12           50 SEA SSS SAM L11

     FILE 'REGISTRY' ENTERED AT 13:20:12 ON 18 AUG 2006
                 D QUE L1
                 D QUE L2
                 D QUE L***
                 D QUE L3
                 D QUE L***
L13           18 SEA SSS SAM L***
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```
                D QUE L***
                D QUE L***
                D QUE L11
                D QUE L1
                D QUE L2
                D QUE L3
                D QUE L11
L14              10 SEA SSS SAM L1
L15             232 SEA SSS FUL L1
L16               1 SEA SSS SAM L2
L17              40 SEA SSS FUL L2
L18               7 SEA SSS SAM L3
L19             871 SEA SSS FUL L3
L20              50 SEA SSS SAM L11
L21           14873 SEA SSS FUL L11
                SAVE L15 RICHARD1/A TEMP
                SAVE L17 RICHARD2/A TEMP
                SAVE L19 RICHARD3/A TEMP
                SAVE L21 RICHARD4/A TEMP

     FILE 'CAPLUS' ENTERED AT 13:24:57 ON 18 AUG 2006
L22             280 SEA ABB=ON  PLU=ON  L15
L23              19 SEA ABB=ON  PLU=ON  L17
L24             552 SEA ABB=ON  PLU=ON  L19
L25           30089 SEA ABB=ON  PLU=ON  L21
L26               0 SEA ABB=ON  PLU=ON  L22 AND L23 AND L24 AND L25

     FILE 'STNGUIDE' ENTERED AT 13:26:04 ON 18 AUG 2006

     FILE 'CAPLUS' ENTERED AT 13:26:46 ON 18 AUG 2006
                E US2000-627787/APPS
                E US00-627787/APPS
                E US09-627787/APPS
                E WO1999-GE19935/APPS

     FILE 'STNGUIDE' ENTERED AT 13:28:51 ON 18 AUG 2006

     FILE 'CAPLUS' ENTERED AT 13:30:10 ON 18 AUG 2006
L27             103 SEA ABB=ON  PLU=ON  L22 NOT (PY>1999 OR AY>1999 OR PRY>1999)
L28              19 SEA ABB=ON  PLU=ON  L23 NOT (PY>1999 OR AY>1999 OR PRY>1999)
L29             386 SEA ABB=ON  PLU=ON  L24 NOT (PY>1999 OR AY>1999 OR PRY>1999)
L30           21727 SEA ABB=ON  PLU=ON  L25 NOT (PY>1999 OR AY>1999 OR PRY>1999)

     FILE 'REGISTRY' ENTERED AT 13:31:01 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 13:47:47 ON 18 AUG 2006
L31                 STRUCTURE UPLOADED
                    D QUE L31
L32               2 SEA SUB=L15 SSS SAM L31
                    D SCAN
L33             227 SEA ABB=ON  PLU=ON  L15 AND O>7
L34              75 SEA SUB=L15 SSS FUL L31

     FILE 'CAPLUS' ENTERED AT 13:50:14 ON 18 AUG 2006
L35             162 SEA ABB=ON  PLU=ON  L34

     FILE 'REGISTRY' ENTERED AT 13:50:25 ON 18 AUG 2006
L36              75 SEA ABB=ON  PLU=ON  L34 AND O>7
L37               0 SEA ABB=ON  PLU=ON  L36 AND CH3/MF
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     FILE 'STNGUIDE' ENTERED AT 13:52:38 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 13:54:16 ON 18 AUG 2006
L38             STRUCTURE UPLOADED
L39           2 SEA SUB=L15 SSS SAM L38
                D SCAN
L40          28 SEA SUB=L15 SSS FUL L38
                D SCAN

     FILE 'CAPLUS' ENTERED AT 13:56:13 ON 18 AUG 2006
L41          21 SEA ABB=ON  PLU=ON  L40
L42         118 SEA ABB=ON  PLU=ON  L15 NOT L36

     FILE 'REGISTRY' ENTERED AT 13:57:57 ON 18 AUG 2006
L43         157 SEA ABB=ON  PLU=ON  L15 NOT L36
                D COST

     FILE 'STNGUIDE' ENTERED AT 13:58:55 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 14:00:44 ON 18 AUG 2006
L44             STRUCTURE UPLOADED
L45           5 SEA SUB=L15 SSS SAM L44
                D SCAN
L46          84 SEA SUB=L15 SSS FUL L44
L47          84 SEA ABB=ON  PLU=ON  L46 NOT L36

     FILE 'CAPLUS' ENTERED AT 14:01:52 ON 18 AUG 2006
L48         125 SEA ABB=ON  PLU=ON  L47

     FILE 'REGISTRY' ENTERED AT 14:02:24 ON 18 AUG 2006
                D QUE L44
                D QUE L38
                D QUE L31
                D QUE L38

     FILE 'REGISTRY' ENTERED AT 14:21:51 ON 18 AUG 2006
L49             STRUCTURE UPLOADED
                D QUE L3
L50          17 SEA SUB=L19 SSS SAM L49
L51         320 SEA SUB=L19 SSS FUL L49

     FILE 'CAPLUS' ENTERED AT 14:23:20 ON 18 AUG 2006
L52          89 SEA ABB=ON  PLU=ON  L51

     FILE 'STNGUIDE' ENTERED AT 14:23:39 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 14:24:09 ON 18 AUG 2006
L53             STRUCTURE UPLOADED
L54          25 SEA SUB=L19 SSS SAM L53
L55         551 SEA SUB=L19 SSS FUL L53
L56         551 SEA ABB=ON  PLU=ON  L55 NOT L51

     FILE 'CAPLUS' ENTERED AT 14:24:46 ON 18 AUG 2006
L57         463 SEA ABB=ON  PLU=ON  L55

     FILE 'REGISTRY' ENTERED AT 14:31:00 ON 18 AUG 2006
                D QUE L11
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     FILE 'CAPLUS' ENTERED AT 14:33:11 ON 18 AUG 2006
                E DE99-19935302/APPS
L58               1 SEA ABB=ON  PLU=ON  (DE99-19935302/AP OR DE99-19935302/PRN)
                D SCAN
                SEL RN L58

     FILE 'REGISTRY' ENTERED AT 14:33:36 ON 18 AUG 2006
                D E1-E64
L59              64 SEA ABB=ON  PLU=ON  (110616-00-7/BI OR 116364-61-5/BI OR
                   146216-12-8/BI OR 146397-20-8/BI OR 147178-75-4/BI OR 159845-57
                   -5/BI OR 161415-79-8/BI OR 161415-81-2/BI OR 163665-40-5/BI OR
                   164910-61-6/BI OR 165447-62-1/BI OR 166436-80-2/BI OR 173432-53
                   -6/BI OR 173432-56-9/BI OR 173432-57-0/BI OR 173432-58-1/BI OR
                   173432-59-2/BI OR 173432-60-5/BI OR 173432-61-6/BI OR 173432-62
                   -7/BI OR 173432-63-8/BI OR 173432-67-2/BI OR 173432-68-3/BI OR
                   173432-69-4/BI OR 173432-70-7/BI OR 173432-71-8/BI OR 181988-02
                   -3/BI OR 181988-09-0/BI OR 186071-78-3/BI OR 186162-52-7/BI OR
                   186162-55-0/BI OR 189356-60-3/BI OR 195184-12-4/BI OR 195184-27
                   -1/BI OR 246223-25-6/BI OR 257601-47-1/BI OR 325605-36-5/BI OR
                   325605-37-6/BI OR 325605-38-7/BI OR 325605-39-8/BI OR 325605-40
                   -1/BI OR 325605-41-2/BI OR 325605-42-3/BI OR 325605-43-4/BI OR
                   325605-44-5/BI OR 325605-45-6/BI OR 325605-46-7/BI OR 325605-47
                   -8/BI OR 325605-48-9/BI OR 325605-49-0/BI OR 325605-50-3/BI OR
                   325605-51-4/BI OR 325605-52-5/BI OR 325760-02-9/BI OR 325760-03
                   -0/BI OR 325760-04-1/BI OR 325760-05-2/BI OR 325760-06-3/BI OR
                   325760-07-4/BI OR 325760-08-5/BI OR 325760-09-6/BI OR 325760-10
                   -9/BI OR 325761-26-0/BI OR 89962-57-2/BI)
L60               2 SEA ABB=ON  PLU=ON  L59 NOT MAN/CI
                D SCAN

     FILE 'CAPLUS' ENTERED AT 14:36:04 ON 18 AUG 2006
                D IALL L58
L61              14 SEA ABB=ON  PLU=ON  L15 (L) CONJUGATE?/OBI

     FILE 'REGISTRY' ENTERED AT 14:48:45 ON 18 AUG 2006
L62                STRUCTURE UPLOADED
L63               2 SEA SUB=L15 SSS SAM L62
L64              70 SEA SUB=L15 SSS FUL L62

     FILE 'CAPLUS' ENTERED AT 14:49:49 ON 18 AUG 2006
L65             157 SEA ABB=ON  PLU=ON  L64
L66               7 SEA ABB=ON  PLU=ON  L64 (L) CONJUGATE?/OBI
L67              46 SEA ABB=ON  PLU=ON  L64 (L) BIOL/RL
                E BIOLOGICAL TRANSPORT/CT

     FILE 'HCAPLUS' ENTERED AT 14:50:57 ON 18 AUG 2006
                E BIOLOGICAL TRANSPORT/CT
                E E3+ALL
L68          255615 SEA ABB=ON  PLU=ON  "BIOLOGICAL TRANSPORT"+PFT/CT
                E BIOLOGICAL TRANSPORT/CT
                E CELL MEMBRANE/CT
                E E3+ALL
L69          109725 SEA ABB=ON  PLU=ON  "CELL MEMBRANE"+PFT/CT
                E CARRIERS/CT
                E E3+ALL
L70           30897 SEA ABB=ON  PLU=ON  (MATERIALS+PFT/CT OR CARRIERS+PFT/CT OR
                   "DRUG DELIVERY SYSTEMS (L) CARRIERS"+PFT/CT)
L71          723266 SEA ABB=ON  PLU=ON  (CARRIER? OR BIOLOGICAL TRANSPORT? OR CELL
                   MEMBRANE? OR CELLLULAR MEMBRANE?)/OBI,BI
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L72         188219 SEA ABB=ON  PLU=ON  CONJUGATE?
L73         188219 SEA ABB=ON  PLU=ON  CONJUGATE?/OBI,BI
L74             44 SEA ABB=ON  PLU=ON  L65 AND (L68 OR L69 OR L70 OR L71 OR L72
                   OR L73)
L75             77 SEA ABB=ON  PLU=ON  (L67 OR L74)
L76             13 SEA ABB=ON  PLU=ON  L67 AND L74
L77             18 SEA ABB=ON  PLU=ON  (L66 OR L76)
L78              4 SEA ABB=ON  PLU=ON  L18 NOT (PY>1999 OR AY>1999 OR PRY>1999)
L79             14 SEA ABB=ON  PLU=ON  L67 NOT (PY>1999 OR AY>1999 OR PRY>1999)
L80              5 SEA ABB=ON  PLU=ON  L77 NOT (PY>1999 OR AY>1999 OR PRY>1999)
L81             77 SEA ABB=ON  PLU=ON  (L67 OR L74)
L82             27 SEA ABB=ON  PLU=ON  L81 NOT (PY>1999 OR AY>1999 OR PRY>1999)
L83             32 SEA ABB=ON  PLU=ON  (L66 OR L82)

     FILE 'REGISTRY' ENTERED AT 15:00:16 ON 18 AUG 2006
                D QUE L1

     FILE 'STNGUIDE' ENTERED AT 15:01:21 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 15:06:33 ON 18 AUG 2006
L84                 STRUCTURE UPLOADED
L85              0 SEA SUB=L15 SSS SAM L84
                   D QUE L84
L86              7 SEA SUB=L15 SSS FUL L84
                   D SCAN

     FILE 'CAPLUS' ENTERED AT 15:08:29 ON 18 AUG 2006
L*** DEL         4 S L6
L87              7 SEA ABB=ON  PLU=ON  L86
L88              6 SEA ABB=ON  PLU=ON  L87 NOT (PY>1999 OR AY>1999 OR PRY>1999)

     FILE 'HCAPLUS' ENTERED AT 15:09:13 ON 18 AUG 2006
L89              7 SEA ABB=ON  PLU=ON  L86

     FILE 'STNGUIDE' ENTERED AT 15:09:52 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 15:13:11 ON 18 AUG 2006
L90                 STRUCTURE UPLOADED
                    D QUE L90
L91              0 SEA SUB=L15 SSS SAM L90
                   D QUE L90
L92              0 SEA SSS SAM L90
L93              2 SEA SUB=L15 SSS FUL L90
                   D SCAN

     FILE 'CAPLUS' ENTERED AT 15:15:11 ON 18 AUG 2006
L94              2 SEA ABB=ON  PLU=ON  L93

     FILE 'HCAPLUS' ENTERED AT 15:15:25 ON 18 AUG 2006
L95              2 SEA ABB=ON  PLU=ON  L93

     FILE 'REGISTRY' ENTERED AT 15:15:34 ON 18 AUG 2006

     FILE 'STNGUIDE' ENTERED AT 15:15:35 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 15:17:48 ON 18 AUG 2006
L96                 STRUCTURE UPLOADED
                    D QUE L19
L97              6 SEA SUB=L19 SSS SAM L96
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L98           75 SEA SUB=L19 SSS FUL L96

     FILE 'HCAPLUS' ENTERED AT 15:18:28 ON 18 AUG 2006
L99           49 SEA ABB=ON  PLU=ON  L98
L100          35 SEA ABB=ON  PLU=ON  L99 NOT (PY>1999 OR AY>1999 OR PRY>1999)

     FILE 'STNGUIDE' ENTERED AT 15:19:01 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 15:20:21 ON 18 AUG 2006
L101             STRUCTURE UPLOADED
L102          16 SEA SUB=L19 SSS SAM L101
L103         425 SEA SUB=L19 SSS FUL L101

     FILE 'HCAPLUS' ENTERED AT 15:20:46 ON 18 AUG 2006
L104         432 SEA ABB=ON  PLU=ON  L103
L105           4 SEA ABB=ON  PLU=ON  L104 AND (L68 OR L69 OR L70 OR L71 OR L72
                 OR L73)
L106          18 SEA ABB=ON  PLU=ON  L103 (L) BIOL/RL
L107          22 SEA ABB=ON  PLU=ON  (L105 OR L106)
L*** DEL      17 S L10
L108           1 SEA ABB=ON  PLU=ON  L103 (L) CONJUGATE?
L109          22 SEA ABB=ON  PLU=ON  (L107 OR L108)

     FILE 'REGISTRY' ENTERED AT 15:24:09 ON 18 AUG 2006
                 D QUE L21

     FILE 'HCAPLUS' ENTERED AT 15:25:18 ON 18 AUG 2006
L110      17320 SEA ABB=ON  PLU=ON  L21 (L) BIOL/RL
L111        916 SEA ABB=ON  PLU=ON  L110 AND (L68 OR L69 OR L70 OR L71 OR L72
                 OR L73)
L112        356 SEA ABB=ON  PLU=ON  L111 NOT (PY>1999 OR AY>1999 OR PRY>1999)

     FILE 'HCAPLUS' ENTERED AT 15:26:29 ON 18 AUG 2006
                 E UHLMANN E/AU
L113        197 SEA ABB=ON  PLU=ON  ("UHLMANN E"/AU OR "UHLMANN E V"/AU OR
                 "UHLMANN EUGEN"/AU OR "UHLMANN EUGEN DR"/AU OR "UHLMANN
                 EUGENE"/AU OR "UHLMANN EUGENIE V"/AU OR "UHLMANN EUGENIE
                 VICTORIA"/AU)
                 E GREINER B/AU
L114         34 SEA ABB=ON  PLU=ON  ("GREINER B"/AU OR "GREINER B F"/AU OR
                 "GREINER BEATE"/AU)
                 E UNGER E/AU
L115        214 SEA ABB=ON  PLU=ON  ("UNGER E"/AU OR "UNGER E C"/AU OR "UNGER
                 E D"/AU OR "UNGER E F"/AU OR "UNGER E H"/AU OR "UNGER E M"/AU
                 OR "UNGER E R"/AU OR "UNGER E W"/AU OR "UNGER EBERHARD"/AU OR
                 "UNGER EBERTHARD"/AU)
                 E GOTHE G/AU
L116          6 SEA ABB=ON  PLU=ON  ("GOTHE G"/AU OR "GOTHE GISLINDE"/AU)
                 E SCHWERDEL M/AU
L117          3 SEA ABB=ON  PLU=ON  "SCHWERDEL MARC"/AU
L118          7 SEA ABB=ON  PLU=ON  (L113 AND (L114 OR L115 OR L116 OR L117))
                 OR (L114 AND (L115 OR L116 OR L117)) OR (L115 AND (L116 OR
                 L117)) OR (L116 AND L117)

=> file reg
FILE 'REGISTRY' ENTERED AT 15:29:24 ON 18 AUG 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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```

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STRUCTURE FILE UPDATES: 16 AUG 2006 HIGHEST RN 902024-59-3
DICTIONARY FILE UPDATES: 16 AUG 2006 HIGHEST RN 902024-59-3

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TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

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http://www.cas.org/ONLINE/UG/regprops.html

=> file hcaplus
FILE 'HCAPLUS' ENTERED AT 15:29:28 ON 18 AUG 2006
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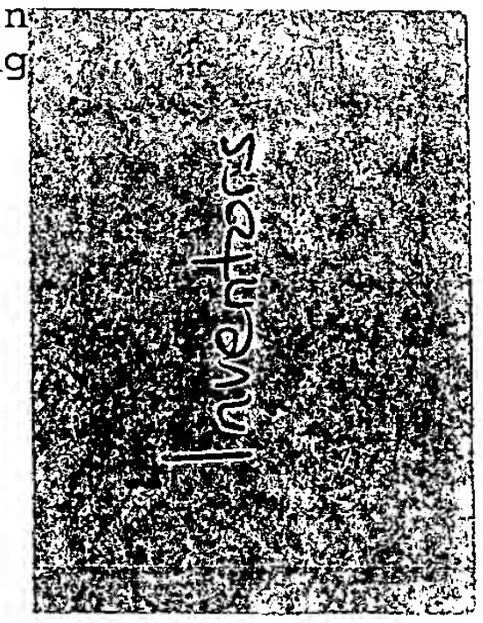
FILE COVERS 1907 - 18 Aug 2006 VOL 145 ISS 9
FILE LAST UPDATED: 17 Aug 2006 (20060817/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.



=> d que l118
L113 197 SEA FILE=HCAPLUS ABB=ON PLU=ON ("UHLMANN E"/AU OR "UHLMANN E V"/AU OR "UHLMANN EUGEN"/AU OR "UHLMANN EUGEN DR"/AU OR "UHLMANN EUGENE"/AU OR "UHLMANN EUGENIE V"/AU OR "UHLMANN EUGENIE VICTORIA"/AU)
L114 34 SEA FILE=HCAPLUS ABB=ON PLU=ON ("GREINER B"/AU OR "GREINER B F"/AU OR "GREINER BEATE"/AU)
L115 214 SEA FILE=HCAPLUS ABB=ON PLU=ON ("UNGER E"/AU OR "UNGER E C"/AU OR "UNGER E D"/AU OR "UNGER E F"/AU OR "UNGER E H"/AU OR "UNGER E M"/AU OR "UNGER E R"/AU OR "UNGER E W"/AU OR "UNGER EBERHARD"/AU OR "UNGER EBERTHARD"/AU)
L116 6 SEA FILE=HCAPLUS ABB=ON PLU=ON ("GOTHE G"/AU OR "GOTHE GISLINDE"/AU)

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L117            3 SEA FILE=HCAPLUS ABB=ON  PLU=ON  "SCHWERDEL MARC"/AU
L118            7 SEA FILE=HCAPLUS ABB=ON  PLU=ON  (L113 AND (L114 OR L115 OR
                  L116 OR L117)) OR (L114 AND (L115 OR L116 OR L117)) OR (L115
                  AND (L116 OR L117)) OR (L116 AND L117)


=> d ibib abs l118 tot

L118 ANSWER 1 OF 7  HCAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2002:805617  HCAPLUS
DOCUMENT NUMBER:          139:64923
TITLE:                    (2'-O-methyl-RNA)-3'-PNA chimeras: A new class of
                          mixed backbone oligonucleotide analogues with high
                          binding affinity to RNA
AUTHOR(S):                Greiner, Beate; Breipohl, Gerhard;
                          Uhlmann, Eugen
CORPORATE SOURCE:         Aventis Pharma Deutschland GmbH, Frankfurt a.M.,
                          D-65926, Germany
SOURCE:                   Helvetica Chimica Acta (2002), 85(9), 2619-2626
                          CODEN: HCACAV; ISSN: 0018-019X
PUBLISHER:                Verlag Helvetica Chimica Acta
DOCUMENT TYPE:            Journal
LANGUAGE:                 English
OTHER SOURCE(S):          CASREACT 139:64923
AB    The automated online synthesis of DNA-3'-PNA chimeras 1-4 and
      (2'-O-methyl-RNA)-3'-PNA chimeras 5-8 is described, in which the
      3'-terminal part of the oligonucleotide is linked to the N-terminal part
      of the PNA via N-(ω-hydroxyalkyl)-N-[(thymin-1-yl)acetyl]glycine
      units (alkyl=Et, Ph, Bu, and pentyl). By means of UV thermal
      denaturation, the binding affinities of all chimeras were directly
      compared by determining their Tm values in the duplex with complementary DNA
and
      RNA. All investigated DNA-3'-PNA chimeras and (2'-O-methyl-RNA)-3'-PNA
      chimeras form more-stable duplexes with complementary DNA and RNA than the
      corresponding unmodified DNA. Interestingly, a N-(3-hydroxypropyl)glycine
      linker resulted in the highest binding affinity for DNA-3'-PNA chimeras,
      whereas the (2'-O-methyl-RNA)-3'-PNA chimeras showed optimal binding with
      the homologous N-(4-hydroxybutyl)glycine linker. The duplexes of
      (2'-O-methyl-RNA)-3'-PNA chimeras and RNA were significantly more stable
      than those containing the corresponding DNA-3'-PNA chimeras. Surprisingly, we
      found that the charged (2'-O-methyl-RNA)-3'-PNA chimera with a
      N-(4-hydroxybutyl)glycine-based unit at the junction to the PNA part shows
      the same binding affinity to RNA as uncharged PNA. Potential applications
      of (2'-O-methyl-RNA)-3'-PNA chimeras include their use as antisense agents
      acting by a RNase-independent mechanism of action, a prerequisite for
      antisense-oligonucleotide-mediated correction of aberrant splicing of
      pre-mRNA.
REFERENCE COUNT:          14    THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L118 ANSWER 2 OF 7  HCAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2001:101001  HCAPLUS
DOCUMENT NUMBER:          134:183461
TITLE:                    Conjugates and methods for the production thereof for
                          transporting molecules across biological membranes
INVENTOR(S):              Uhlmann, Eugen; Greiner, Beate;
                          Unger, Eberhard; Gothe, Gislinde;
                          Schwerdel, Marc
PATENT ASSIGNEE(S):       Aventis Pharma Deutschland GmbH, Germany
```

SOURCE: PCT Int. Appl., 84 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001008707	A2	20010208	WO 2000-EP6936	20000720
WO 2001008707	A3	20011108		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19935302	A1	20010208	DE 1999-19935302	19990728
CA 2377977	AA	20010208	CA 2000-2377977	20000720
AU 2000068252	A5	20010219	AU 2000-68252	20000720
AU 776114	B2	20040826		
BR 2000012757	A	20020402	BR 2000-12757	20000720
EP 1204430	A2	20020515	EP 2000-956220	20000720
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
TR 200200222	T2	20020722	TR 2002-222	20000720
JP 2003505517	T2	20030212	JP 2001-513437	20000720
EE 200200035	A	20030415	EE 2002-35	20000720
NZ 516838	A	20040730	NZ 2000-516838	20000720
RU 2275936	C2	20060510	RU 2002-105016	20000720
NO 2002000367	A	20020326	NO 2002-367	20020123
ZA 2002000657	A	20030825	ZA 2002-657	20020124
HK 1047042	A1	20060407	HK 2002-108623	20021129

PRIORITY APPLN. INFO.: DE 1999-19935302 A 19990728
WO 2000-EP6936 W 20000720

OTHER SOURCE(S): MARPAT 134:183461

AB The invention relates to conjugates, methods for their production, and to the use of these conjugates for transporting low mol. weight compds. and macromols. across biol. membranes, in particular, for transporting mols. into cells. The invention also relates to medicaments, diagnostic agents and test kits in which these conjugates are present or introduced.

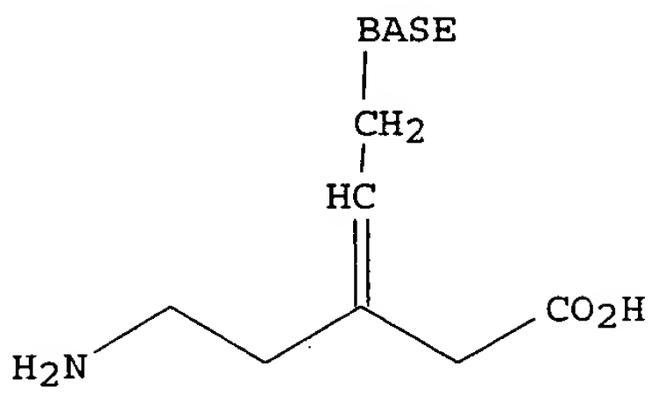
L118 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:78521 HCAPLUS
DOCUMENT NUMBER: 134:141728
TITLE: Antisense oligonucleotides for inhibition of synthesis of the mitotic spindle motor protein EG5 for control of cell division
INVENTOR(S): ***Uhlmann, Eugen***; ***Greiner, Beate***; ***Unger, Eberhard***; ***Gothe, Gislinde***; ***Schwerdel, Marc***
PATENT ASSIGNEE(S): Aventis Pharma Deutschland G.m.b.H., Germany
SOURCE: PCT Int. Appl., 49 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001007602	A2	20010201	WO 2000-EP7345	20000721
WO 2001007602	A3	20010517		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19935303	A1	20010208	DE 1999-19935303	19990728
CA 2380192	AA	20010201	CA 2000-2380192	20000721
BR 2000013180	A	20020409	BR 2000-13180	20000721
EP 1204742	A2	20020515	EP 2000-953119	20000721
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
TR 200200201	T2	20020521	TR 2002-201	20000721
JP 2003505080	T2	20030212	JP 2001-512871	20000721
EE 200200044	A	20030616	EE 2002-44	20000721
NZ 516839	A	20040430	NZ 2000-516839	20000721
RU 2249458	C2	20050410	RU 2002-105021	20000721
US 6472521	B1	20021029	US 2000-627122	20000727
NO 2002000365	A	20020325	NO 2002-365	20020123
ZA 2002000655	A	20030724	ZA 2002-655	20020124
HK 1048337	A1	20050225	HK 2003-100581	20030123
PRIORITY APPLN. INFO.:			DE 1999-19935303 A	19990728
			WO 2000-EP7345 W	20000721

AB Antisense nucleotides that can inhibit expression of the gene for the mitotic spindle motor protein EG5 and that can be used in the therapeutic control of cell division are described. The oligonucleotides can be used to treat infections or proliferative disorders. Effectiveness of these oligonucleotides was shown in REH and A549 cells where inhibition of proliferation of up to 70% were found.

L118 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:258582 HCAPLUS
DOCUMENT NUMBER: 133:89771
TITLE: Olefinic peptide nucleic acids (OPAs): new aspects of the molecular recognition of DNA by PNA
AUTHOR(S): Schutz, Rolf; Cantin, Michel; Roberts, Christopher; ***Greiner, Beate; Uhlmann, Eugen;*** Leumann, Christian
CORPORATE SOURCE: Department of Chemistry and Biochemistry, University of Bern, Bern, 3012, Switz.
SOURCE: Angewandte Chemie, International Edition (2000), 39(7), 1250-1253
CODEN: ACIEF5; ISSN: 1433-7851
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB In order to study the structural and electrostatic effect of the PNA rotameric forms, the authors have synthesized olefinic polyamide nucleic acids (OPAs) in which the central amide functionality was replaced by an isostructural, configurationally stable C-C double bond in either the Z or E configuration (I; BASE = thymidine or adenine), and used them to prepare (E)- or (Z)-OPA oligomers. A series of mono-substituted PNAs and fully-modified (E) and (Z)-OPAs were synthesized and their duplex-forming behavior with DNA studied. Both (E)- and (Z)-OPAs bound to complementary DNA with similar affinities as DNA itself, but in contrast to PNA, OPA2/DNA triplexes were not formed, and OPA preferentially bound in the parallel mode to DNA. Results led to the conclusion that amide functionality in the base-linked unit in PNA determined significantly the affinity and preferred strand orientation in PNA/DNA duplexes, and seemed to be responsible for the propensity to form PNA2/DNA triplexes; these properties do not depend on the conformational constraints that the amide functionality exerts on the base-linker unit, but rather on its electrostatic properties.

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L118 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:41751 HCAPLUS
DOCUMENT NUMBER: 132:304723
TITLE: Influence of the type of junction in DNA-3'-peptide nucleic acid (PNA) chimeras on their binding affinity to DNA and RNA
AUTHOR(S): ***Greiner, Beate***; Breipohl, Gerhard; ***Uhlmann, Eugen***
CORPORATE SOURCE: Hoechst Marion Roussel Deutschland GmbH, Chemical Research G 838, Frankfurt, D-65926, Germany
SOURCE: Helvetica Chimica Acta (1999), 82(12), 2151-2159
CODEN: HCACAV; ISSN: 0018-019X
PUBLISHER: Verlag Helvetica Chimica Acta
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The automated online synthesis of a series of three DNA-3'-PNA (PNA = Polyamide Nucleic Acids) chimeras is described, in which the 3'-terminus of the oligonucleotide is linked to the amino terminus of the PNA via an N-(2-mercaptoethyl)- (X=S), N-(2-hydroxyethyl)- (X=O), or N-(2-aminoethyl)- (X=NH) N-[(thymin-1-yl)acetyl]glycine unit. In addition, the DNA-3'-PNA chimera with no nucleobase at the linking unit was prepared The binding affinities of all chimeras were directly compared by determining their Tm values in duplexes with complementary DNA, RNA, or DNA containing a mismatch or abasic site opposite to the linker unit. We found that all

chimeras in this study which have a nucleobase at the junction were able to form more stable duplexes with complementary DNA and RNA than the corresponding unmodified DNA. The influence of X on duplex stabilization was determined to be O > S ≈ NH, thus demonstrating the phosphodiester bridge to be the most favored linkage at the DNA/PNA junction. The strong duplex-destabilizing effects observed when base mismatches or non-basic sites were introduced opposite the nucleobase at the DNA/PNA junction, suggest that the base situated at the linking unit contributes significantly to duplex stabilization.

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L118 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:514952 HCAPLUS
DOCUMENT NUMBER: 131:286760
TITLE: Conversion of unprotected amino-link oligonucleotides into their tetramethylguanidinium derivatives
AUTHOR(S): ***Greiner, B.; Uhlmann, E.***
CORPORATE SOURCE: Hoechst Marion Roussel, Chemical Research G 838, Frankfurt, D-65926, Germany
SOURCE: Nucleosides & Nucleotides (1999), 18(6 & 7), 1457-1458
CODEN: NUNUD5; ISSN: 0732-8311
PUBLISHER: Marcel Dekker, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A symposium with two refs. The preparation of tetramethylguanidinium oligodeoxynucleotide (ODN) derivs. by reaction of the corresponding aminoalkyl-ODN with the uronium salts HBTU, TBTU or HATU, resp., is described. The binding affinity of the new tetramethylguanidinium ODN derivs. was determined

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L118 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:501533 HCAPLUS
DOCUMENT NUMBER: 132:194633
TITLE: PNA/DNA chimeras
AUTHOR(S): ***Uhlmann, Eugen; Greiner, Beate;*** Breipohl, Gerhard
CORPORATE SOURCE: Hoechst Marion Roussel Deutschland GmbH Chemical Research G 838, Frankfurt am Main, D-65926, Germany
SOURCE: Peptide Nucleic Acids (1999), 51-70. Editor(s): Nielsen, Peter E.; Egholm, Michael. Horizon Scientific Press: Norfolk, UK.
CODEN: 67YLA6
DOCUMENT TYPE: Conference
LANGUAGE: English
AB A convenient method for the solid-support synthesis of PNA/DNA chimeras is described which makes use of monomethoxytrityl/acyl-protected monomeric building blocks. The acid-labile monomethoxytrityl (Mmt) group is employed for the temporary protection of the amino function of aminoethyl-glycine, while the exocyclic amino functions of the nucleobases are protected with ammonia-cleavable acyl protecting groups. This orthogonal protecting-group strategy is fully compatible with the standard phosphoramidite DNA synthesis method. The resulting PNA/DNA chimeras obey the Watson-Crick rules on binding to complementary DNA and RNA. Binding affinity of the PNA-DNA chimeras strongly depends on the PNA:DNA ratio. The PNA/DNA chimeras bind with higher affinity to RNA than to DNA, and the type of linking moiety between PNA and DNA could be adjusted to obtain

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=> d his nofile

     (FILE 'HOME' ENTERED AT 10:31:52 ON 18 AUG 2006)

     FILE 'REGISTRY' ENTERED AT 10:31:57 ON 18 AUG 2006

     FILE 'STNGUIDE' ENTERED AT 10:32:13 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 10:33:07 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 10:35:15 ON 18 AUG 2006
L*** DEL        STRUCTURE UPLOADED

     FILE 'STNGUIDE' ENTERED AT 10:35:42 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 10:36:29 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 11:14:26 ON 18 AUG 2006
L1              STRUCTURE UPLOADED
                D QUE L1

     FILE 'STNGUIDE' ENTERED AT 11:15:00 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 11:15:56 ON 18 AUG 2006
L2              STRUCTURE UPLOADED
L*** DEL        STRUCTURE UPLOADED
L3              STRUCTURE UPLOADED
L4             10 SEA SSS SAM L1
L5              1 SEA SSS SAM L2
L6              7 SEA SSS SAM L***
L7              7 SEA SSS SAM L3

     FILE 'REGISTRY' ENTERED AT 11:25:02 ON 18 AUG 2006
L*** DEL        STRUCTURE UPLOADED
L8             18 SEA SSS SAM L***

     FILE 'REGISTRY' ENTERED AT 11:25:59 ON 18 AUG 2006
L*** DEL        STRUCTURE UPLOADED
L9             18 SEA SSS SAM L***

     FILE 'STNGUIDE' ENTERED AT 11:26:17 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 11:26:58 ON 18 AUG 2006
L*** DEL        STRUCTURE UPLOADED
L10            17 SEA SSS SAM L***

     FILE 'STNGUIDE' ENTERED AT 11:27:16 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 11:32:44 ON 18 AUG 2006
L11             STRUCTURE UPLOADED
L12            50 SEA SSS SAM L11

     FILE 'REGISTRY' ENTERED AT 13:20:12 ON 18 AUG 2006
                D QUE L1
                D QUE L2
                D QUE L***
                D QUE L3
                D QUE L***
L13            18 SEA SSS SAM L***
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                D QUE L***
                D QUE L***
                D QUE L11
                D QUE L1
                D QUE L2
                D QUE L3
                D QUE L11
L14              10 SEA SSS SAM L1
L15             232 SEA SSS FUL L1
L16               1 SEA SSS SAM L2
L17              40 SEA SSS FUL L2
L18               7 SEA SSS SAM L3
L19             871 SEA SSS FUL L3
L20              50 SEA SSS SAM L11
L21           14873 SEA SSS FUL L11
                SAVE L15 RICHARD1/A TEMP
                SAVE L17 RICHARD2/A TEMP
                SAVE L19 RICHARD3/A TEMP
                SAVE L21 RICHARD4/A TEMP

     FILE 'CAPLUS' ENTERED AT 13:24:57 ON 18 AUG 2006
L22             280 SEA ABB=ON  PLU=ON  L15
L23              19 SEA ABB=ON  PLU=ON  L17
L24             552 SEA ABB=ON  PLU=ON  L19
L25           30089 SEA ABB=ON  PLU=ON  L21
L26               0 SEA ABB=ON  PLU=ON  L22 AND L23 AND L24 AND L25

     FILE 'STNGUIDE' ENTERED AT 13:26:04 ON 18 AUG 2006

     FILE 'CAPLUS' ENTERED AT 13:26:46 ON 18 AUG 2006
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                E US00-627787/APPS
                E US09-627787/APPS
                E WO1999-GE19935/APPS

     FILE 'STNGUIDE' ENTERED AT 13:28:51 ON 18 AUG 2006

     FILE 'CAPLUS' ENTERED AT 13:30:10 ON 18 AUG 2006
L27             103 SEA ABB=ON  PLU=ON  L22 NOT (PY>1999 OR AY>1999 OR PRY>1999)
L28              19 SEA ABB=ON  PLU=ON  L23 NOT (PY>1999 OR AY>1999 OR PRY>1999)
L29             386 SEA ABB=ON  PLU=ON  L24 NOT (PY>1999 OR AY>1999 OR PRY>1999)
L30           21727 SEA ABB=ON  PLU=ON  L25 NOT (PY>1999 OR AY>1999 OR PRY>1999)

     FILE 'REGISTRY' ENTERED AT 13:31:01 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 13:47:47 ON 18 AUG 2006
L31                STRUCTURE UPLOADED
                   D QUE L31
L32              2 SEA SUB=L15 SSS SAM L31
                   D SCAN
L33            227 SEA ABB=ON  PLU=ON  L15 AND O>7
L34             75 SEA SUB=L15 SSS FUL L31

     FILE 'CAPLUS' ENTERED AT 13:50:14 ON 18 AUG 2006
L35            162 SEA ABB=ON  PLU=ON  L34

     FILE 'REGISTRY' ENTERED AT 13:50:25 ON 18 AUG 2006
L36             75 SEA ABB=ON  PLU=ON  L34 AND O>7
L37              0 SEA ABB=ON  PLU=ON  L36 AND CH3/MF
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     FILE 'REGISTRY' ENTERED AT 13:54:16 ON 18 AUG 2006
L38             STRUCTURE UPLOADED
L39           2 SEA SUB=L15 SSS SAM L38
                D SCAN
L40          28 SEA SUB=L15 SSS FUL L38
                D SCAN

     FILE 'CAPLUS' ENTERED AT 13:56:13 ON 18 AUG 2006
L41          21 SEA ABB=ON  PLU=ON  L40
L42         118 SEA ABB=ON  PLU=ON  L15 NOT L36

     FILE 'REGISTRY' ENTERED AT 13:57:57 ON 18 AUG 2006
L43         157 SEA ABB=ON  PLU=ON  L15 NOT L36
                D COST

     FILE 'STNGUIDE' ENTERED AT 13:58:55 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 14:00:44 ON 18 AUG 2006
L44             STRUCTURE UPLOADED
L45           5 SEA SUB=L15 SSS SAM L44
                D SCAN
L46          84 SEA SUB=L15 SSS FUL L44
L47          84 SEA ABB=ON  PLU=ON  L46 NOT L36

     FILE 'CAPLUS' ENTERED AT 14:01:52 ON 18 AUG 2006
L48         125 SEA ABB=ON  PLU=ON  L47

     FILE 'REGISTRY' ENTERED AT 14:02:24 ON 18 AUG 2006
                D QUE L44
                D QUE L38
                D QUE L31
                D QUE L38

     FILE 'REGISTRY' ENTERED AT 14:21:51 ON 18 AUG 2006
L49             STRUCTURE UPLOADED
                D QUE L3
L50          17 SEA SUB=L19 SSS SAM L49
L51         320 SEA SUB=L19 SSS FUL L49

     FILE 'CAPLUS' ENTERED AT 14:23:20 ON 18 AUG 2006
L52          89 SEA ABB=ON  PLU=ON  L51

     FILE 'STNGUIDE' ENTERED AT 14:23:39 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 14:24:09 ON 18 AUG 2006
L53             STRUCTURE UPLOADED
L54          25 SEA SUB=L19 SSS SAM L53
L55         551 SEA SUB=L19 SSS FUL L53
L56         551 SEA ABB=ON  PLU=ON  L55 NOT L51

     FILE 'CAPLUS' ENTERED AT 14:24:46 ON 18 AUG 2006
L57         463 SEA ABB=ON  PLU=ON  L55

     FILE 'REGISTRY' ENTERED AT 14:31:00 ON 18 AUG 2006
                D QUE L11
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     FILE 'CAPLUS' ENTERED AT 14:33:11 ON 18 AUG 2006
                   E DE99-19935302/APPS
L58             1 SEA ABB=ON  PLU=ON  (DE99-19935302/AP OR DE99-19935302/PRN)
                   D SCAN
                   SEL RN L58

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                   -8/BI OR 325605-48-9/BI OR 325605-49-0/BI OR 325605-50-3/BI OR
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                   325760-07-4/BI OR 325760-08-5/BI OR 325760-09-6/BI OR 325760-10
                   -9/BI OR 325761-26-0/BI OR 89962-57-2/BI)
L60             2 SEA ABB=ON  PLU=ON  L59 NOT MAN/CI
                   D SCAN

     FILE 'CAPLUS' ENTERED AT 14:36:04 ON 18 AUG 2006
                   D IALL L58
L61            14 SEA ABB=ON  PLU=ON  L15 (L) CONJUGATE?/OBI

     FILE 'REGISTRY' ENTERED AT 14:48:45 ON 18 AUG 2006
L62                STRUCTURE UPLOADED
L63             2 SEA SUB=L15 SSS SAM L62
L64            70 SEA SUB=L15 SSS FUL L62

     FILE 'CAPLUS' ENTERED AT 14:49:49 ON 18 AUG 2006
L65           157 SEA ABB=ON  PLU=ON  L64
L66             7 SEA ABB=ON  PLU=ON  L64 (L) CONJUGATE?/OBI
L67            46 SEA ABB=ON  PLU=ON  L64 (L) BIOL/RL
                   E BIOLOGICAL TRANSPORT/CT

     FILE 'HCAPLUS' ENTERED AT 14:50:57 ON 18 AUG 2006
                   E BIOLOGICAL TRANSPORT/CT
                   E E3+ALL
L68        255615 SEA ABB=ON  PLU=ON  "BIOLOGICAL TRANSPORT"+PFT/CT
                   E BIOLOGICAL TRANSPORT/CT
                   E CELL MEMBRANE/CT
                   E E3+ALL
L69        109725 SEA ABB=ON  PLU=ON  "CELL MEMBRANE"+PFT/CT
                   E CARRIERS/CT
                   E E3+ALL
L70         30897 SEA ABB=ON  PLU=ON  (MATERIALS+PFT/CT OR CARRIERS+PFT/CT OR
                   "DRUG DELIVERY SYSTEMS (L) CARRIERS"+PFT/CT)
L71        723266 SEA ABB=ON  PLU=ON  (CARRIER? OR BIOLOGICAL TRANSPORT? OR CELL
                   MEMBRANE? OR CELLLULAR MEMBRANE?)/OBI,BI
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L72       188219 SEA ABB=ON  PLU=ON  CONJUGATE?
L73       188219 SEA ABB=ON  PLU=ON  CONJUGATE?/OBI,BI
L74           44 SEA ABB=ON  PLU=ON  L65 AND (L68 OR L69 OR L70 OR L71 OR L72
                 OR L73)
L75           77 SEA ABB=ON  PLU=ON  (L67 OR L74)
L76           13 SEA ABB=ON  PLU=ON  L67 AND L74
L77           18 SEA ABB=ON  PLU=ON  (L66 OR L76)
L78            4 SEA ABB=ON  PLU=ON  L18 NOT (PY>1999 OR AY>1999 OR PRY>1999)
L79           14 SEA ABB=ON  PLU=ON  L67 NOT (PY>1999 OR AY>1999 OR PRY>1999)
L80            5 SEA ABB=ON  PLU=ON  L77 NOT (PY>1999 OR AY>1999 OR PRY>1999)
L81           77 SEA ABB=ON  PLU=ON  (L67 OR L74)
L82           27 SEA ABB=ON  PLU=ON  L81 NOT (PY>1999 OR AY>1999 OR PRY>1999)
L83           32 SEA ABB=ON  PLU=ON  (L66 OR L82)

     FILE 'REGISTRY' ENTERED AT 15:00:16 ON 18 AUG 2006
             D QUE L1

     FILE 'STNGUIDE' ENTERED AT 15:01:21 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 15:06:33 ON 18 AUG 2006
L84              STRUCTURE UPLOADED
L85            0 SEA SUB=L15 SSS SAM L84
                 D QUE L84
L86            7 SEA SUB=L15 SSS FUL L84
                 D SCAN

     FILE 'CAPLUS' ENTERED AT 15:08:29 ON 18 AUG 2006
L*** DEL       4 S L6
L87            7 SEA ABB=ON  PLU=ON  L86
L88            6 SEA ABB=ON  PLU=ON  L87 NOT (PY>1999 OR AY>1999 OR PRY>1999)

     FILE 'HCAPLUS' ENTERED AT 15:09:13 ON 18 AUG 2006
L89            7 SEA ABB=ON  PLU=ON  L86

     FILE 'STNGUIDE' ENTERED AT 15:09:52 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 15:13:11 ON 18 AUG 2006
L90              STRUCTURE UPLOADED
                 D QUE L90
L91            0 SEA SUB=L15 SSS SAM L90
                 D QUE L90
L92            0 SEA SSS SAM L90
L93            2 SEA SUB=L15 SSS FUL L90
                 D SCAN

     FILE 'CAPLUS' ENTERED AT 15:15:11 ON 18 AUG 2006
L94            2 SEA ABB=ON  PLU=ON  L93

     FILE 'HCAPLUS' ENTERED AT 15:15:25 ON 18 AUG 2006
L95            2 SEA ABB=ON  PLU=ON  L93

     FILE 'REGISTRY' ENTERED AT 15:15:34 ON 18 AUG 2006

     FILE 'STNGUIDE' ENTERED AT 15:15:35 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 15:17:48 ON 18 AUG 2006
L96              STRUCTURE UPLOADED
                 D QUE L19
L97            6 SEA SUB=L19 SSS SAM L96
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L98          75 SEA SUB=L19 SSS FUL L96

     FILE 'HCAPLUS' ENTERED AT 15:18:28 ON 18 AUG 2006
L99          49 SEA ABB=ON  PLU=ON  L98
L100         35 SEA ABB=ON  PLU=ON  L99 NOT (PY>1999 OR AY>1999 OR PRY>1999)

     FILE 'STNGUIDE' ENTERED AT 15:19:01 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 15:20:21 ON 18 AUG 2006
L101            STRUCTURE UPLOADED
L102         16 SEA SUB=L19 SSS SAM L101
L103        425 SEA SUB=L19 SSS FUL L101

     FILE 'HCAPLUS' ENTERED AT 15:20:46 ON 18 AUG 2006
L104        432 SEA ABB=ON  PLU=ON  L103
L105          4 SEA ABB=ON  PLU=ON  L104 AND (L68 OR L69 OR L70 OR L71 OR L72
                OR L73)
L106         18 SEA ABB=ON  PLU=ON  L103 (L) BIOL/RL
L107         22 SEA ABB=ON  PLU=ON  (L105 OR L106)
L*** DEL     17 S L10
L108          1 SEA ABB=ON  PLU=ON  L103 (L) CONJUGATE?
L109         22 SEA ABB=ON  PLU=ON  (L107 OR L108)

     FILE 'REGISTRY' ENTERED AT 15:24:09 ON 18 AUG 2006
            D QUE L21

     FILE 'HCAPLUS' ENTERED AT 15:25:18 ON 18 AUG 2006
L110      17320 SEA ABB=ON  PLU=ON  L21 (L) BIOL/RL
L111        916 SEA ABB=ON  PLU=ON  L110 AND (L68 OR L69 OR L70 OR L71 OR L72
                OR L73)
L112        356 SEA ABB=ON  PLU=ON  L111 NOT (PY>1999 OR AY>1999 OR PRY>1999)

     FILE 'HCAPLUS' ENTERED AT 15:26:29 ON 18 AUG 2006
            E UHLMANN E/AU
L113        197 SEA ABB=ON  PLU=ON  ("UHLMANN E"/AU OR "UHLMANN E V"/AU OR
                "UHLMANN EUGEN"/AU OR "UHLMANN EUGEN DR"/AU OR "UHLMANN
                EUGENE"/AU OR "UHLMANN EUGENIE V"/AU OR "UHLMANN EUGENIE
                VICTORIA"/AU)
            E GREINER B/AU
L114         34 SEA ABB=ON  PLU=ON  ("GREINER B"/AU OR "GREINER B F"/AU OR
                "GREINER BEATE"/AU)
            E UNGER E/AU
L115        214 SEA ABB=ON  PLU=ON  ("UNGER E"/AU OR "UNGER E C"/AU OR "UNGER
                E D"/AU OR "UNGER E F"/AU OR "UNGER E H"/AU OR "UNGER E M"/AU
                OR "UNGER E R"/AU OR "UNGER E W"/AU OR "UNGER EBERHARD"/AU OR
                "UNGER EBERTHARD"/AU)
            E GOTHE G/AU
L116          6 SEA ABB=ON  PLU=ON  ("GOTHE G"/AU OR "GOTHE GISLINDE"/AU)
            E SCHWERDEL M/AU
L117          3 SEA ABB=ON  PLU=ON  "SCHWERDEL MARC"/AU
L118          7 SEA ABB=ON  PLU=ON  (L113 AND (L114 OR L115 OR L116 OR L117))
                OR (L114 AND (L115 OR L116 OR L117)) OR (L115 AND (L116 OR
                L117)) OR (L116 AND L117)

     FILE 'REGISTRY' ENTERED AT 15:29:24 ON 18 AUG 2006

     FILE 'HCAPLUS' ENTERED AT 15:29:28 ON 18 AUG 2006
            D QUE L118
            D IBIB ABS L118 TOT
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                D QUE L83
                D IBIB ABS HITIND HITSTR L83 TOT
                D QUE L89
                D IBIB ABS HITSTR L89 TOT
                D QUE L95
                D IBIB ABS HITSTR L95 TOT
                D QUE L100
                D IBIB ABS HITIND HITSTR L100 TOT
                D QUE L112
                D IBIB ABS HITIND HITSTR L112 336-356
                D QUE L109
                D IBIB ABS HITIND HITSTR L109 TOT
                D QUE L17
                D QUE L23

     FILE 'CAPLUS' ENTERED AT 15:33:47 ON 18 AUG 2006
                D IBIB ABS HITSTR L23 TOT

     FILE 'HCAPLUS' ENTERED AT 15:33:54 ON 18 AUG 2006
L119          33 SEA ABB=ON  PLU=ON  (L58 OR L83)
L120           8 SEA ABB=ON  PLU=ON  (L58 OR L89)
L121           3 SEA ABB=ON  PLU=ON  (L58 OR L95)
L122          36 SEA ABB=ON  PLU=ON  (L58 OR L100)
L123         357 SEA ABB=ON  PLU=ON  (L58 OR L112)
L124          23 SEA ABB=ON  PLU=ON  (L58 OR L109)
L125          20 SEA ABB=ON  PLU=ON  (L58 OR L17)

     FILE 'REGISTRY' ENTERED AT 15:53:15 ON 18 AUG 2006
                SAVE L64 RICHSUB1/A TEMP
                SAVE L86 RICHSUB2/A TEMP
                SAVE L93 RICHSUB3/A TEMP
                SAVE L98 RICHSUB4/A TEMP

     FILE 'CAPLUS' ENTERED AT 15:56:08 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 16:32:03 ON 18 AUG 2006
                D QUE L112

     FILE 'STNGUIDE' ENTERED AT 16:32:33 ON 18 AUG 2006

     FILE 'REGISTRY' ENTERED AT 16:33:46 ON 18 AUG 2006
L126            STRUCTURE UPLOADED
                D QUE L112
                D QUE L21
L127          50 SEA SUB=L21 SSS SAM L126
L128        7024 SEA SUB=L21 SSS FUL L126

     FILE 'HCAPLUS' ENTERED AT 16:35:21 ON 18 AUG 2006
L129         522 SEA ABB=ON  PLU=ON  L128 (L) BIOL/RL
L130          15 SEA ABB=ON  PLU=ON  L129 AND (L68 OR L69 OR L70 OR L71 OR L72
                  OR L73)
L131          10 SEA ABB=ON  PLU=ON  L130 NOT (PY>1999 OR AY>1999 OR PRY>1999)

     FILE 'REGISTRY' ENTERED AT 16:36:23 ON 18 AUG 2006
                SAVE L128 RICHSUB5/A TEMP

     FILE 'HCAPLUS' ENTERED AT 16:36:43 ON 18 AUG 2006
L132          14 SEA ABB=ON  PLU=ON  L128 (L) CONJUGATE?
L133           4 SEA ABB=ON  PLU=ON  L132 NOT (PY>1999 OR AY>1999 OR PRY>1999)
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L134 18 SEA ABB=ON PLU=ON (L130 OR L133)
L135 26 SEA ABB=ON PLU=ON (L130 OR L132)

=> file hcaplus
FILE 'HCAPLUS' ENTERED AT 16:37:43 ON 18 AUG 2006

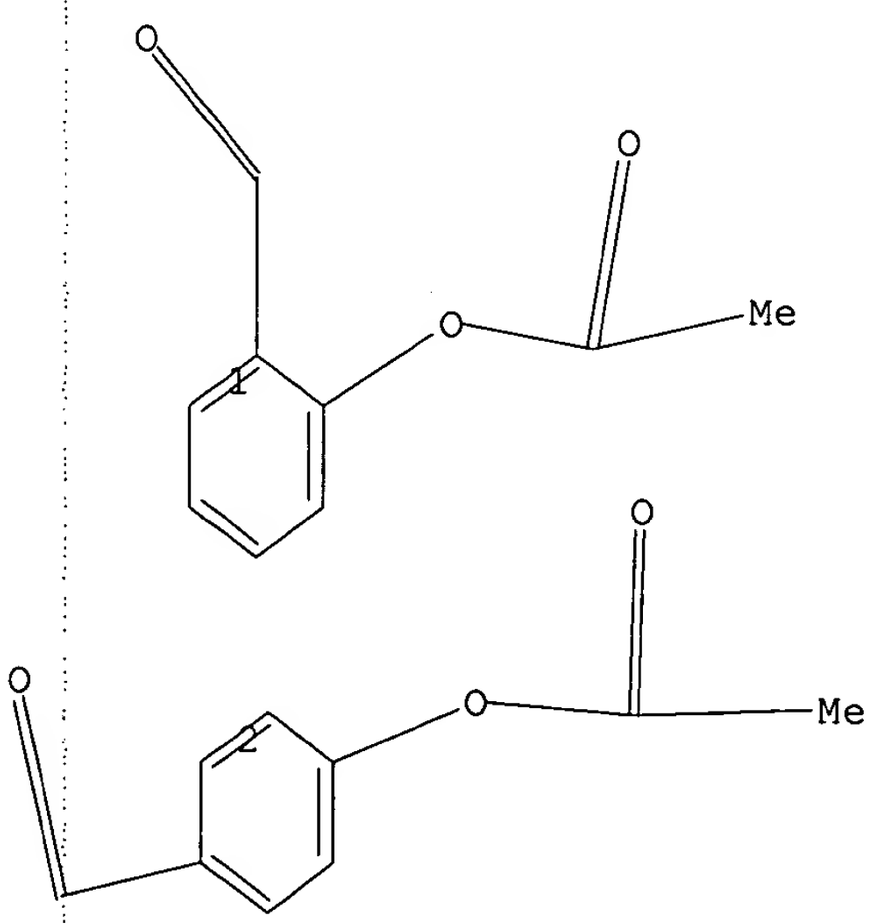
FILE COVERS 1907 - 18 Aug 2006 VOL 145 ISS 9
FILE LAST UPDATED: 17 Aug 2006 (20060817/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que l134
L11 STR

G1



G1 [@1],[@2]

Structure attributes must be viewed using STN Express query preparation.
L21 14873 SEA FILE=REGISTRY SSS FUL L11
L68 255615 SEA FILE=HCAPLUS ABB=ON PLU=ON "BIOLOGICAL TRANSPORT"+PFT/CT

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L69       109725 SEA FILE=HCAPLUS ABB=ON  PLU=ON  "CELL MEMBRANE"+PFT/CT
L70        30897 SEA FILE=HCAPLUS ABB=ON  PLU=ON  (MATERIALS+PFT/CT OR CARRIERS+
                 PFT/CT OR "DRUG DELIVERY SYSTEMS (L) CARRIERS"+PFT/CT)
L71       723266 SEA FILE=HCAPLUS ABB=ON  PLU=ON  (CARRIER? OR BIOLOGICAL
                 TRANSPORT? OR CELL MEMBRANE? OR CELLLULAR MEMBRANE?)/OBI,BI
L72       188219 SEA FILE=HCAPLUS ABB=ON  PLU=ON  CONJUGATE?
L73       188219 SEA FILE=HCAPLUS ABB=ON  PLU=ON  CONJUGATE?/OBI,BI
L126             STR
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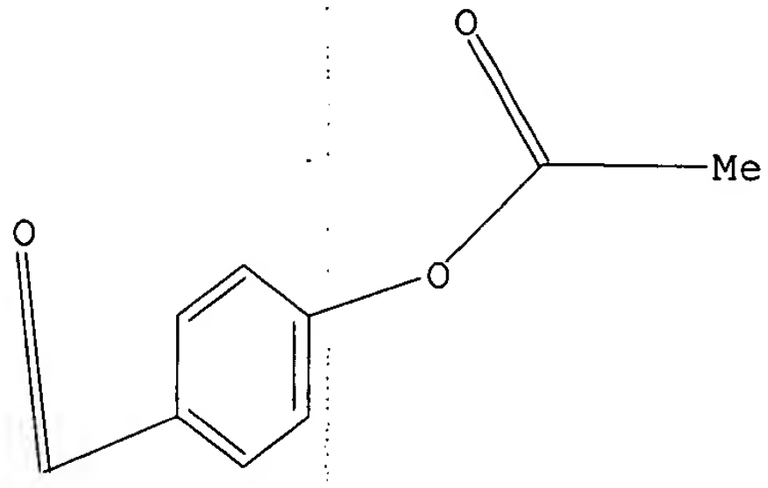


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Structure attributes must be viewed using STN Express query preparation.
L128       7024 SEA FILE=REGISTRY SUB=L21 SSS FUL L126
L129        522 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L128 (L) BIOL/RL
L130         15 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L129 AND (L68 OR L69 OR L70
                OR L71 OR L72 OR L73)
L132         14 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L128 (L) CONJUGATE?
L133          4 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L132 NOT (PY>1999 OR AY>1999
                OR PRY>1999)
L134         18 SEA FILE=HCAPLUS ABB=ON  PLU=ON  (L130 OR L133)


=> d ibib abs hitind hitstr l134 tot

L134 ANSWER 1 OF 18  HCAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2006:301176  HCAPLUS
DOCUMENT NUMBER:          144:331423
TITLE:                    Novel tetracyclic heteroatom containing derivatives
                          useful as sex steroid hormone receptor modulators and
                          their preparation, pharmaceutical compositions and use
                          for treatment of sex steroid hormone receptor mediated
                          diseases
INVENTOR(S):              Sui, Zhihua; Zhang, Xuqing; Li, Xiaojie
PATENT ASSIGNEE(S):       Janssen Pharmaceutica N.V., Belg.
SOURCE:                   PCT Int. Appl., 160 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.          DATE
     ---------------      ----   --------    ---------------------    --------
     WO 2006034090         A1    20060330    WO 2005-US33272          20050916
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
            CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,


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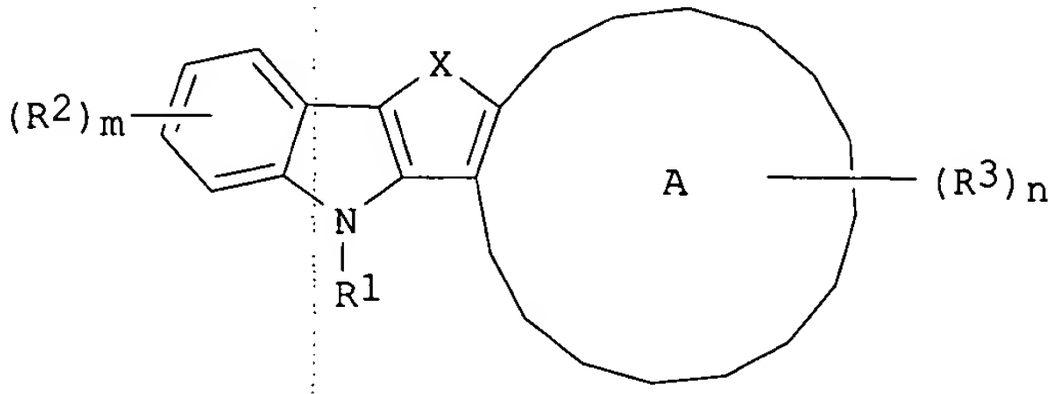
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,
LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ,
NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG,
SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN,
YU, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM
US 2006116415 A1 20060601 US 2005-228562 20050916
PRIORITY APPLN. INFO.: US 2004-611376P P 20040920
GI



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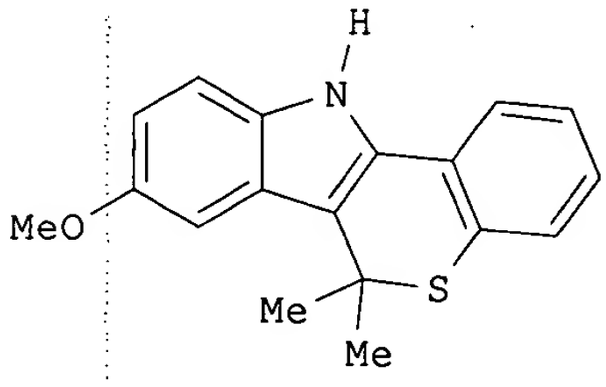

II

AB The invention is directed to tetracyclic heteroatom containing derivs., of formula I, pharmaceutical compns. containing them, their use in the treatment of disorders mediated by one or more sex steroid hormone receptors and processes for their preparation Compds. of formula I wherein X is O , S, or NH and derivs.; R1 is H, OH, C1-6 alkyl, C(O)C1-6 alkyl, C1-4 alkyl-NH2 and derivs., and L1R4(L2)cR5; A is 5- to 7-membered (un)saturated (un)substituted (hetero)aromatic ring; m and n are independently an integer from 0 to 2; R2 and R3 are independently H, OH, carboxy, oxo, CN, NO2, amino, (mono/di)C1-4 alkylamino, C1-4 (halo)alkyl, C1-4 alkoxy, O-aralkyl, CO2C1-4 alkyl, C(O)C1-4 alkyl, OC(O)C1-4 alkyl, OSO2C1-4 (halo)alkyl, and OTBDMS; L1 is CH2, or CO; R4 is 5- to 6-membered (hetero)aryl; c is 0 or 1; L2 is C1-4 alkyl, C2-4 alkenyl, OC1-3 alkyl, SC1-3 alkyl, or NHC1-3alkyl and derivs.; R5 is NH2 and derivs., C(O)C1-4 alkyl, CO2H, CO2C1-4 alkyl, or OC(O)C1-4 alkyl; and pharmaceutically acceptable salts thereof are claimed in this invention. Example compound II was prepared by condensation of 4-methoxyphenyl hydrazine with 3,4-dihydro-2H-benzo[b]thiepin-5-one. All the invention compds. were evaluated for their sex steroid receptor hormone affinity. From the assays, the IC50 values were determined Example compound II showed IC50 values of 10μM for estrogen

α and β, 7.5 μM for androgen rat cos-7, -0.2 % inhibition for androgen rat cystol and 54% inhibition for progestin at 10μM concentration

CC 28-2 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1, 63

IT ***Drug delivery systems***
(***carriers***; preparation of tetracyclic heteroatom containing derivs. useful as sex steroid hormone receptor modulators)

IT 4079-29-2P 7202-87-1P 85302-16-5P, 1-Methyl-1,5,6,7-tetrahydroindazol-4-one 880552-68-1P 880552-75-0P 880552-78-3P 880552-79-4P 880552-81-8P 880552-90-9P 880552-91-0P 880552-97-6P 880552-99-8P 880553-00-4P, 5,11-Dimethyl-5,11-dihydro-6H-indolo[3,2-c]quinoline-2,8-diol 880553-01-5P, 2-Methoxy-5,11-dimethyl-5,11-dihydro-6H-indolo[3,2-c]quinolin-8-ol 880553-02-6P 880553-04-8P 880553-05-9P 880553-06-0P 880553-07-1P, 12-Methyl-5,6,7,12-tetrahydrobenzo[6,7]cyclohepta[1,2-b]indol-9-ol 880553-08-2P 880553-09-3P 880553-10-6P 880553-11-7P 880553-12-8P 880553-13-9P 880553-14-0P, 3-Ethylsulfanylmethyl-2-(2-hydroxyphenyl)-1-methyl-1H-indol-5-ol 880553-16-2P, 5,11-Dimethyl-5,11-dihydro-6H-indolo[3,2-c]quinolin-8-ol 880553-18-4P 880553-19-5P 880553-20-8P 880553-21-9P 880553-22-0P 880553-23-1P 880553-24-2P 880553-26-4P 880553-28-6P 880553-30-0P 880553-31-1P 880553-32-2P 880553-33-3P 880553-34-4P 880553-36-6P ***880553-37-7P*** 880553-38-8P 880553-39-9P 880553-40-2P 880553-41-3P 880553-42-4P 880553-44-6P 880553-45-7P 880553-46-8P 880553-47-9P 880553-48-0P 880553-49-1P 880553-51-5P 880553-52-6P 880553-53-7P 880553-54-8P 880553-55-9P 880553-56-0P 880553-58-2P 880553-59-3P 880553-60-6P 880553-61-7P 880553-62-8P 880553-63-9P 880553-66-2P 880553-70-8P 880553-73-1P, 11-Methyl-5,11-dihydro-6H-pyrido[3,2-a]carbazol-8-ol 880553-76-4P 880553-79-7P, 11-Methyl-5,11-dihydro-6H-pyrido[3,2-a]carbazol-9-ol 880553-82-2P, 10-Methyl-5,10-dihydro-4H-thieno[3,2-a]carbazol-7-ol 880553-84-4P, 3,10-Dimethyl-3,4,5,10-tetrahydropyrrolo[3,2-a]carbazol-7-ol 880553-85-5P 880553-87-7P 880553-89-9P 880553-93-5P 880553-96-8P 880553-97-9P 880554-04-1P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); ***BIOL (Biological study)***; PREP (Preparation);
USES (Uses)
(drug candidate; preparation of tetracyclic heteroatom containing derivs. useful as sex steroid hormone receptor modulators)

IT ***880553-37-7P***
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); ***BIOL (Biological study)***; PREP (Preparation);
USES (Uses)
(drug candidate; preparation of tetracyclic heteroatom containing derivs. useful as sex steroid hormone receptor modulators)

RN 880553-37-7 HCAPLUS
CN [1]Benzopyrano[4,3-b]indole, 11-[4-(acetyloxy)benzoyl]-6,11-dihydro-8-methoxy- (9CI) (CA INDEX NAME)

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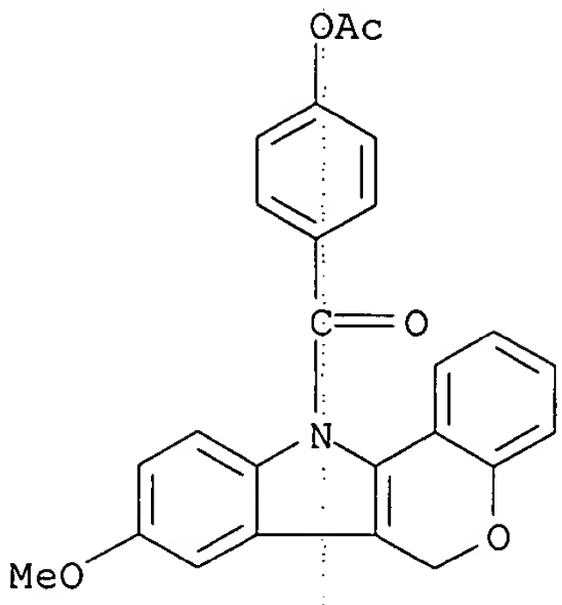

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L134 ANSWER 2 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:961905 HCAPLUS
DOCUMENT NUMBER: 143:260403
TITLE: Protein kinase inhibitors and methods for identifying same
INVENTOR(S): Lawrence, David S.
PATENT ASSIGNEE(S): Albert Einstein College of Medicine of Yeshiva University, USA
SOURCE: PCT Int. Appl., 116 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005079300	A2	20050901	WO 2005-US4410	20050214

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2004-544376P P 20040213
OTHER SOURCE(S): MARPAT 143:260403

AB Inhibitors of protein kinase C (PKC)α, PKCδ and PKCζ are provided which are selective for those PKC isotypes. Combinatorial libraries for identifying protein kinases are also provided, as are methods of identifying protein kinases using those libraries. Addnl., methods of treating a mammal having a deleterious condition, where the condition is dependent on a protein kinase for induction or severity, are provided. Methods of inhibiting protein kinases are also provided.

IC ICM A61K
CC 1-12 (Pharmacology)
Section cross-reference(s): 7, 34

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IT Peptides, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(***conjugates***, with chemical moieties; protein kinase C inhibitors and methods for identifying same for disease treatment)

IT 50-43-1D, ***conjugates*** with consensus peptides 50-45-3D, ***conjugates*** with consensus peptides 50-78-2D, ***conjugates*** with consensus peptides 50-79-3D, ***conjugates*** with consensus peptides 50-84-0D, ***conjugates*** with consensus peptides 50-85-1D, ***conjugates*** with consensus peptides 51-44-5D, ***conjugates*** with consensus peptides 55-10-7D, ***conjugates*** with consensus peptides 57-08-9D, ***conjugates*** with consensus peptides 65-82-7D, ***conjugates*** with consensus peptides 66-99-9D, 2-Naphthaldehyde, ***conjugates*** with consensus peptides 74-11-3D, ***conjugates*** with consensus peptides 75-98-9D, ***conjugates*** with consensus peptides 76-93-7D, ***conjugates*** with consensus peptides 77-55-4D, ***conjugates*** with consensus peptides 79-09-4D, Propanoic acid, ***conjugates*** with consensus peptides 79-14-1D, ***conjugates*** with consensus peptides 79-33-4D, ***conjugates*** with consensus peptides, biological studies 81-25-4D, ***conjugates*** with consensus peptides 83-05-6D, ***conjugates*** with consensus peptides 83-30-7D, ***conjugates*** with consensus peptides 83-40-9D, ***conjugates*** with consensus peptides 83-44-3D, ***conjugates*** with consensus peptides 85-46-1D, 1-Naphthalenesulfonyl chloride, ***conjugates*** with consensus peptides 85-54-1D, ***conjugates*** with consensus peptides 85-55-2D, ***conjugates*** with consensus peptides 85-56-3D, ***conjugates*** with consensus peptides 85-73-4D, Phthalylsulfathiazole, ***conjugates*** with consensus peptides 86-48-6D, ***conjugates*** with consensus peptides 86-55-5D, 1-Naphthalenecarboxylic acid, ***conjugates*** with consensus peptides 86-87-3D, 1-Naphthylacetic acid, ***conjugates*** with consensus peptides 88-09-5D, ***conjugates*** with consensus peptides 88-13-1D, 3-Thiophenecarboxylic acid, ***conjugates*** with consensus peptides 88-65-3D, 2-Bromobenzoic acid, ***conjugates*** with consensus peptides 88-67-5D, ***conjugates*** with consensus peptides 88-82-4D, ***conjugates*** with consensus peptides 89-32-7D, ***conjugates*** with consensus peptides 89-35-0D, ***conjugates*** with consensus peptides 89-41-8D, ***conjugates*** with consensus peptides 89-86-1D, ***conjugates*** with consensus peptides 90-02-8D, 2-Hydroxybenzaldehyde, ***conjugates*** with consensus peptides 90-59-5D, 3,5-Dibromosalicylaldehyde, ***conjugates*** with consensus peptides 91-40-7D, ***conjugates*** with consensus peptides 92-70-6D, ***conjugates*** with consensus peptides 93-09-4D, 2-Naphthalenecarboxylic acid, ***conjugates*** with consensus peptides 93-11-8D, 2-Naphthalenesulfonyl chloride, ***conjugates*** with consensus peptides 93-25-4D, ***conjugates*** with consensus peptides 93-72-1D, 2-(2,4,5-Trichlorophenoxy)propionic acid, ***conjugates*** with consensus peptides 93-76-5D, ***conjugates*** with consensus peptides 94-74-6D, 4-Chloro-o-tolyloxyacetic acid, ***conjugates*** with consensus peptides 94-82-6D, ***conjugates*** with consensus peptides 96-84-4D, ***conjugates*** with consensus peptides 96-98-0D, ***conjugates*** with consensus peptides 97-05-2D, ***conjugates*** with consensus peptides 97-61-0D, ***conjugates*** with consensus peptides 97-67-6D, ***conjugates*** with consensus peptides 98-09-9D, Benzenesulfonyl chloride, ***conjugates*** with consensus peptides 98-58-8D, ***conjugates*** with consensus peptides 98-59-9D, ***conjugates*** with consensus peptides 98-60-2D,

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conjugates with consensus peptides 98-61-3D, ***conjugates*** with consensus peptides 98-73-7D, ***conjugates*** with consensus peptides 98-74-8D, ***conjugates*** with consensus peptides 98-89-5D, Cyclohexanecarboxylic acid, ***conjugates*** with consensus peptides 99-06-9D, ***conjugates*** with consensus peptides 99-34-3D, ***conjugates*** with consensus peptides 99-50-3D, ***conjugates*** with consensus peptides 99-64-9D, ***conjugates*** with consensus peptides 99-66-1D, ***conjugates*** with consensus peptides 99-94-5D, ***conjugates*** with consensus peptides 99-96-7D, ***conjugates*** with consensus peptides 100-09-4D, ***conjugates*** with consensus peptides 100-10-7D, 4-(Dimethylamino)benzaldehyde, ***conjugates*** with consensus peptides 101-10-0D, ***conjugates*** with consensus peptides 102-32-9D, ***conjugates*** with consensus peptides 103-82-2D, Benzeneacetic acid, ***conjugates*** with consensus peptides 105-43-1D, ***conjugates*** with consensus peptides 107-93-7D, ***conjugates*** with consensus peptides 108-55-4D, ***conjugates*** with consensus peptides 109-52-4D, Pentanoic acid, ***conjugates*** with consensus peptides 110-15-6D, Butanedioic acid, ***conjugates*** with consensus peptides, biological studies 110-44-1D, ***conjugates*** with consensus peptides 110-99-6D, ***conjugates*** with consensus peptides 111-14-8D, Heptanoic acid, ***conjugates*** with consensus peptides 111-20-6D, Decanedioic acid, ***conjugates*** with consensus peptides 112-05-0D, Nonanoic acid, ***conjugates*** with consensus peptides 112-38-9D, Undecylenic acid, ***conjugates*** with consensus peptides 115-28-6D, ***conjugates*** with consensus peptides 116-53-0D, ***conjugates*** with consensus peptides 117-34-0D, ***conjugates*** with consensus peptides 118-90-1D, ***conjugates*** with consensus peptides 118-91-2D, ***conjugates*** with consensus peptides 118-92-3D, ***conjugates*** with consensus peptides 120-23-0D, ***conjugates*** with consensus peptides 120-36-5D, ***conjugates*** with consensus peptides 121-32-4D, 3-Ethoxy-4-hydroxybenzaldehyde, ***conjugates*** with consensus peptides 121-34-6D, ***conjugates*** with consensus peptides 121-51-7D, ***conjugates*** with consensus peptides 121-92-6D, ***conjugates*** with consensus peptides 122-59-8D, ***conjugates*** with consensus peptides 122-88-3D, 4-Chlorophenoxyacetic acid, ***conjugates*** with consensus peptides 123-43-3D, ***conjugates*** with consensus peptides 123-99-9D, Nonanedioic acid, ***conjugates*** with consensus peptides 124-07-2D, Octanoic acid, ***conjugates*** with consensus peptides 126-00-1D, ***conjugates*** with consensus peptides 127-17-3D, ***conjugates*** with consensus peptides 128-13-2D, ***conjugates*** with consensus peptides 132-60-5D, 2-Phenyl-4-Quinolinecarboxylic acid, ***conjugates*** with consensus peptides 133-32-4D, 1H-Indole-3-butanoic acid, ***conjugates*** with consensus peptides 134-11-2D, ***conjugates*** with consensus peptides 134-96-3D, Syringaldehyde, ***conjugates*** with consensus peptides 139-85-5D, 3,4-Dihydroxybenzaldehyde, ***conjugates*** with consensus peptides 142-62-1D, Hexanoic acid, ***conjugates*** with consensus peptides 143-07-7D, Dodecanoic acid, ***conjugates*** with consensus peptides 148-53-8D, o-Vanillin, ***conjugates*** with consensus peptides 149-57-5D, ***conjugates*** with consensus peptides 149-91-7D, ***conjugates*** with consensus peptides 156-38-7D, 4-Hydroxyphenylacetic acid, ***conjugates*** with consensus peptides 156-39-8D, ***conjugates*** with consensus peptides 300-85-6D, ***conjugates*** with consensus peptides 302-79-4D, all-trans-Retinoic acid, ***conjugates*** with consensus peptides 303-07-1D, ***conjugates*** with consensus peptides 303-38-8D, ***conjugates*** with consensus peptides 306-08-1D, ***conjugates***

with consensus peptides 307-78-8D, ***conjugates*** with consensus peptides 320-72-9D, ***conjugates*** with consensus peptides 320-94-5D, ***conjugates*** with consensus peptides 321-12-0D, ***conjugates*** with consensus peptides 328-50-7D, ***conjugates*** with consensus peptides 330-12-1D, ***conjugates*** with consensus peptides 331-25-9D, ***conjugates*** with consensus peptides 334-48-5D, Decanoic acid, ***conjugates*** with consensus peptides 345-16-4D, ***conjugates*** with consensus peptides 351-35-9D, ***conjugates*** with consensus peptides 366-77-8D, ***conjugates*** with consensus peptides 375-72-4D, ***conjugates*** with consensus peptides 375-85-9D, ***conjugates*** with consensus peptides 375-95-1D, ***conjugates*** with consensus peptides 376-68-1D, ***conjugates*** with consensus peptides 381-98-6D, ***conjugates*** with consensus peptides 385-00-2D, ***conjugates*** with consensus peptides 395-35-7D, ***conjugates*** with consensus peptides 395-64-2D, 2,5-Bis(trifluoromethyl)benzaldehyde, ***conjugates*** with consensus peptides 399-76-8D, ***conjugates*** with consensus peptides 403-16-7D, ***conjugates*** with consensus peptides 403-20-3D, ***conjugates*** with consensus peptides 405-79-8D, ***conjugates*** with consensus peptides 433-97-6D, ***conjugates*** with consensus peptides 434-13-9D, ***conjugates*** with consensus peptides 434-75-3D, ***conjugates*** with consensus peptides 445-29-4D, ***conjugates*** with consensus peptides 451-13-8D, ***conjugates*** with consensus peptides 451-69-4D, ***conjugates*** with consensus peptides 451-82-1D, ***conjugates*** with consensus peptides 453-71-4D, ***conjugates*** with consensus peptides 454-92-2D, ***conjugates*** with consensus peptides 455-19-6D, α,α,α-Trifluoro-p-tolualdehyde, ***conjugates*** with consensus peptides 455-86-7D, ***conjugates*** with consensus peptides 456-22-4D, ***conjugates*** with consensus peptides 458-09-3D, ***conjugates*** with consensus peptides 459-80-3D, ***conjugates*** with consensus peptides 464-78-8D, ***conjugates*** with consensus peptides 465-48-5D, ***conjugates*** with consensus peptides 474-25-9D, ***conjugates*** with consensus peptides 480-63-7D, ***conjugates*** with consensus peptides 482-05-3D, [1,1'-Biphenyl]-2,2'-dicarboxylic acid, ***conjugates*** with consensus peptides 486-73-7D, 1-Isoquinolinecarboxylic acid, ***conjugates*** with consensus peptides 487-54-7D, ***conjugates*** with consensus peptides 488-93-7D, 3-Furancarboxylic acid, ***conjugates*** with consensus peptides 490-18-6D, ***conjugates*** with consensus peptides 490-64-2D, ***conjugates*** with consensus peptides 490-79-9D, ***conjugates*** with consensus peptides 495-69-2D, ***conjugates*** with consensus peptides 495-78-3D, ***conjugates*** with consensus peptides 501-52-0D, Benzenepropanoic acid, ***conjugates*** with consensus peptides 501-97-3D, ***conjugates*** with consensus peptides 503-74-2D, ***conjugates*** with consensus peptides 504-88-1D, ***conjugates*** with consensus peptides 510-20-3D, ***conjugates*** with consensus peptides 514-10-3D, ***conjugates*** with consensus peptides 515-30-0D, ***conjugates*** with consensus peptides 522-87-2D, ***conjugates*** with consensus peptides 530-78-9D, ***conjugates*** with consensus peptides 534-59-8D, ***conjugates*** with consensus peptides 536-69-6D, ***conjugates*** with consensus peptides 537-55-3D, ***conjugates*** with consensus peptides 537-73-5D, ***conjugates*** with consensus peptides 537-98-4D, ***conjugates*** with consensus peptides 548-51-6D, ***conjugates*** with consensus peptides 552-16-9D, ***conjugates*** with consensus peptides 554-95-0D, 1,3,5-Benzenetricarboxylic acid, ***conjugates*** with consensus peptides 555-16-8D, 4-Nitrobenzaldehyde, ***conjugates*** with

consensus peptides 555-68-0D, 3-Nitrocinnamic acid, ***conjugates*** with consensus peptides 556-08-1D, ***conjugates*** with consensus peptides 557-24-4D, ***conjugates*** with consensus peptides 573-03-5D, ***conjugates*** with consensus peptides 573-11-5D, ***conjugates*** with consensus peptides 573-54-6D, ***conjugates*** with consensus peptides 579-18-0D, ***conjugates*** with consensus peptides 579-75-9D, ***conjugates*** with consensus peptides 579-92-0D, ***conjugates*** with consensus peptides 581-96-4D, 2-Naphthaleneacetic acid, ***conjugates*** with consensus peptides 585-76-2D, ***conjugates*** with consensus peptides 586-38-9D, m-Anisic acid, ***conjugates*** with consensus peptides 586-76-5D, ***conjugates*** with consensus peptides 586-89-0D, ***conjugates*** with consensus peptides 588-22-7D, ***conjugates*** with consensus peptides 591-80-0D, 4-Pentenoic acid, ***conjugates*** with consensus peptides 594-61-6D, ***conjugates*** with consensus peptides 595-91-5D, ***conjugates*** with consensus peptides 598-10-7D, 1,1-Cyclopropanedicarboxylic acid, ***conjugates*** with consensus peptides 598-78-7D, ***conjugates*** with consensus peptides 601-75-2D, ***conjugates*** with consensus peptides 602-94-8D, ***conjugates*** with consensus peptides 603-79-2D, ***conjugates*** with consensus peptides 609-71-2D, ***conjugates*** with consensus peptides 609-99-4D, ***conjugates*** with consensus peptides 610-02-6D, ***conjugates*** with consensus peptides 610-30-0D, ***conjugates*** with consensus peptides 611-01-8D, ***conjugates*** with consensus peptides 611-71-2D, ***conjugates*** with consensus peptides 611-73-4D, ***conjugates*** with consensus peptides 612-35-1D, ***conjugates*** with consensus peptides 612-40-8D, ***conjugates*** with consensus peptides 614-75-5D, ***conjugates*** with consensus peptides 616-75-1D, ***conjugates*** with consensus peptides 616-76-2D, 5-Formylsalicylic acid, ***conjugates*** with consensus peptides 616-82-0D, ***conjugates*** with consensus peptides 618-51-9D, ***conjugates*** with consensus peptides 618-58-6D, ***conjugates*** with consensus peptides 618-65-5D, Helicin, ***conjugates*** with consensus peptides 618-83-7D, ***conjugates*** with consensus peptides 619-14-7D, ***conjugates*** with consensus peptides 619-21-6D, 3-Carboxybenzaldehyde, ***conjugates*** with consensus peptides 619-58-9D, ***conjugates*** with consensus peptides 619-64-7D, ***conjugates*** with consensus peptides
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(protein kinase C inhibitors and methods for identifying same for disease treatment)

IT 619-86-3D, 4-Ethoxybenzoic acid, ***conjugates*** with consensus peptides 621-37-4D, ***conjugates*** with consensus peptides 621-54-5D, 3-(3-Hydroxyphenyl)propionic acid, ***conjugates*** with consensus peptides 625-45-6D, ***conjugates*** with consensus peptides 626-86-8D, ***conjugates*** with consensus peptides 632-25-7D, ***conjugates*** with consensus peptides 632-46-2D, ***conjugates*** with consensus peptides 638-32-4D, ***conjugates*** with consensus peptides 639-91-8D, ***conjugates*** with consensus peptides 643-43-6D, ***conjugates*** with consensus peptides 645-08-9D, ***conjugates*** with consensus peptides 645-12-5D, ***conjugates*** with consensus peptides 646-07-1D, ***conjugates*** with consensus peptides 652-03-9D, ***conjugates*** with consensus peptides 652-12-0D, ***conjugates*** with consensus peptides 652-18-6D, ***conjugates*** with consensus peptides 652-32-4D, ***conjugates*** with consensus peptides 652-34-6D, ***conjugates*** with consensus peptides 653-21-4D, ***conjugates*** with consensus

peptides 657-06-7D, ***conjugates*** with consensus peptides 680-15-9D, ***conjugates*** with consensus peptides 699-90-1D, ***conjugates*** with consensus peptides 701-97-3D, Cyclohexanepropanoic acid, ***conjugates*** with consensus peptides 704-13-2D, 3-Hydroxy-4-nitrobenzaldehyde, ***conjugates*** with consensus peptides 708-06-5D, 2-Hydroxy-1-naphthaldehyde, ***conjugates*** with consensus peptides 712-97-0D, 6-Nitropiperonal, ***conjugates*** with consensus peptides 719-60-8D, ***conjugates*** with consensus peptides 723-62-6D, 9-Anthracenecarboxylic acid, ***conjugates*** with consensus peptides 771-50-6D, 1H-Indole-3-carboxylic acid, ***conjugates*** with consensus peptides 772-79-2D, ***conjugates*** with consensus peptides 775-01-9D, ***conjugates*** with consensus peptides 777-44-6D, ***conjugates*** with consensus peptides 779-89-5D, ***conjugates*** with consensus peptides 818-88-2D, ***conjugates*** with consensus peptides 824-72-6D, ***conjugates*** with consensus peptides 828-51-3D, ***conjugates*** with consensus peptides 830-96-6D, 1H-Indole-3-propanoic acid, ***conjugates*** with consensus peptides 832-53-1D, Pentafluorobenzenesulfonyl chloride, ***conjugates*** with consensus peptides 837-95-6D, ***conjugates*** with consensus peptides 879-65-2D, 2-Quinoxalinecarboxylic acid, ***conjugates*** with consensus peptides 882-09-7D, ***conjugates*** with consensus peptides 900-91-4D, ***conjugates*** with consensus peptides 928-64-3D, ***conjugates*** with consensus peptides 940-31-8D, ***conjugates*** with consensus peptides 940-64-7D, ***conjugates*** with consensus peptides 942-91-6D, ***conjugates*** with consensus peptides 943-14-6D, ***conjugates*** with consensus peptides 947-84-2D, [1,1'-Biphenyl]-2-carboxylic acid, ***conjugates*** with consensus peptides 1007-01-8D, Bicyclo[2.2.1]heptane-2-acetic acid, ***conjugates*** with consensus peptides 1007-16-5D, ***conjugates*** with consensus peptides 1008-72-6D, ***conjugates*** with consensus peptides 1009-67-2D, ***conjugates*** with consensus peptides 1019-52-9D, ***conjugates*** with consensus peptides 1075-49-6D, ***conjugates*** with consensus peptides 1076-97-7D, 1,4-Cyclohexanedicarboxylic acid, ***conjugates*** with consensus peptides 1078-61-1D, ***conjugates*** with consensus peptides 1080-44-0D, ***conjugates*** with consensus peptides 1123-00-8D, Cyclopentaneacetic acid, ***conjugates*** with consensus peptides 1123-25-7D, ***conjugates*** with consensus peptides 1124-65-8D, ***conjugates*** with consensus peptides 1142-20-7D, ***conjugates*** with consensus peptides 1142-39-8D, ***conjugates*** with consensus peptides 1149-26-4D, ***conjugates*** with consensus peptides 1161-13-3D, ***conjugates*** with consensus peptides 1171-47-7D, ***conjugates*** with consensus peptides 1188-21-2D, ***conjugates*** with consensus peptides 1194-98-5D, 2,5-Dihydroxybenzaldehyde, ***conjugates*** with consensus peptides 1200-07-3D, ***conjugates*** with consensus peptides 1201-31-6D, ***conjugates*** with consensus peptides 1204-75-7D, ***conjugates*** with consensus peptides 1205-30-7D, ***conjugates*** with consensus peptides 1218-34-4D, ***conjugates*** with consensus peptides 1421-49-4D, ***conjugates*** with consensus peptides 1477-49-2D, ***conjugates*** with consensus peptides 1498-96-0D, ***conjugates*** with consensus peptides 1505-50-6D, ***conjugates*** with consensus peptides 1551-39-9D, ***conjugates*** with consensus peptides 1552-96-1D, ***conjugates*** with consensus peptides 1573-92-8D,

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conjugates with consensus peptides 1577-18-0D, ***conjugates*** with consensus peptides 1583-58-0D, ***conjugates*** with consensus peptides 1583-67-1D, ***conjugates*** with consensus peptides 1596-84-5D, ***conjugates*** with consensus peptides 1634-82-8D, 2-(4-Hydroxyphenylazo)benzoic acid, ***conjugates*** with consensus peptides 1656-44-6D, ***conjugates*** with consensus peptides 1667-99-8D, ***conjugates*** with consensus peptides 1679-53-4D, ***conjugates*** with consensus peptides 1679-64-7D, ***conjugates*** with consensus peptides 1771-65-9D, ***conjugates*** with consensus peptides 1821-12-1D, Benzenebutanoic acid, ***conjugates*** with consensus peptides 1829-32-9D, ***conjugates*** with consensus peptides 1877-72-1D, ***conjugates*** with consensus peptides 1877-73-2D, ***conjugates*** with consensus peptides 1878-66-6D, ***conjugates*** with consensus peptides 1878-81-5D, ***conjugates*** with consensus peptides 1882-69-5D, ***conjugates*** with consensus peptides 1914-58-5D, ***conjugates*** with consensus peptides 1918-77-0D, 2-Thiopheneacetic acid, ***conjugates*** with consensus peptides 1939-99-7D, Benzenemethanesulfonyl chloride, ***conjugates*** with consensus peptides 1947-00-8D, ***conjugates*** with consensus peptides 1975-50-4D, ***conjugates*** with consensus peptides 2018-61-3D, ***conjugates*** with consensus peptides 2018-66-8D, N-Carbobenzyloxy-L-Leucine, ***conjugates*** with consensus peptides 2062-25-1D, ***conjugates*** with consensus peptides 2107-70-2D, ***conjugates*** with consensus peptides 2124-55-2D, 1H-Indole-4-carboxylic acid, ***conjugates*** with consensus peptides 2168-06-1D, ***conjugates*** with consensus peptides 2215-89-6D, ***conjugates*** with consensus peptides 2224-00-2D, 2-Ethoxy-1-naphthoic acid, ***conjugates*** with consensus peptides 2237-36-7D, ***conjugates*** with consensus peptides 2243-42-7D, ***conjugates*** with consensus peptides 2252-51-9D, ***conjugates*** with consensus peptides 2270-20-4D, Benzenepentanoic acid, ***conjugates*** with consensus peptides 2302-80-9D, ***conjugates*** with consensus peptides 2305-32-0D, ***conjugates*** with consensus peptides ***2345-34-8D***, 4-Acetoxybenzoic acid, ***conjugates*** with consensus peptides 2345-38-2D, ***conjugates*** with consensus peptides 2358-29-4D, ***conjugates*** with consensus peptides 2359-09-3D, ***conjugates*** with consensus peptides 2373-76-4D, ***conjugates*** with consensus peptides 2373-80-0D, ***conjugates*** with consensus peptides 2386-60-9D, 1-Butanesulfonyl chloride, ***conjugates*** with consensus peptides 2426-87-1D, 4-Benzyloxy-3-methoxybenzaldehyde, ***conjugates*** with consensus peptides 2438-05-3D, ***conjugates*** with consensus peptides 2444-36-2D, ***conjugates*** with consensus peptides 2444-37-3D, ***conjugates*** with consensus peptides 2459-05-4D, ***conjugates*** with consensus peptides 2493-84-7D, ***conjugates*** with consensus peptides 2516-96-3D, ***conjugates*** with consensus peptides 2612-02-4D, ***conjugates*** with consensus peptides 2613-89-0D, ***conjugates*** with consensus peptides 2638-94-0D, ***conjugates*** with consensus peptides 2645-07-0D, ***conjugates*** with consensus peptides 2650-64-8D, ***conjugates*** with consensus peptides 2736-23-4D, ***conjugates*** with consensus peptides 2777-65-3D, 10-Undecynoic acid, ***conjugates*** with consensus peptides 2785-98-0D, ***conjugates*** with consensus peptides 2861-28-1D,

1,3-Benzodioxole-5-acetic acid, ***conjugates*** with consensus peptides 2881-31-4D, ***conjugates*** with consensus peptides 2882-15-7D, ***conjugates*** with consensus peptides 2905-25-1D, ***conjugates*** with consensus peptides 2942-59-8D, ***conjugates*** with consensus peptides 2959-96-8D, ***conjugates*** with consensus peptides 2976-75-2D, ***conjugates*** with consensus peptides 2991-28-8D, ***conjugates*** with consensus peptides 3006-96-0D, ***conjugates*** with consensus peptides 3011-34-5D, 4-Hydroxy-3-nitrobenzaldehyde, ***conjugates*** with consensus peptides 3038-48-0D, ***conjugates*** with consensus peptides 3095-95-2D, ***conjugates*** with consensus peptides 3113-72-2D, ***conjugates*** with consensus peptides 3128-07-2D, ***conjugates*** with consensus peptides 3160-59-6D, ***conjugates*** with consensus peptides 3222-47-7D, ***conjugates*** with consensus peptides 3257-18-9D, ***conjugates*** with consensus peptides 3307-39-9D, 2-(4-Chlorophenoxy)propionic acid, ***conjugates*** with consensus peptides 3337-62-0D, 3,5-Dibromo-4-Hydroxybenzoic acid, ***conjugates*** with consensus peptides 3343-24-6D, Benzeneundecanoic acid, ***conjugates*** with consensus peptides 3405-88-7D, ***conjugates*** with consensus peptides 3438-16-2D, 5-Chloro-O-Anisic acid, ***conjugates*** with consensus peptides 3443-45-6D, 1-Pyrenebutanoic acid, ***conjugates*** with consensus peptides 3575-31-3D, ***conjugates*** with consensus peptides 3639-21-2D, ***conjugates*** with consensus peptides 3739-38-6D, ***conjugates*** with consensus peptides 3740-52-1D, 2-Nitrophenylacetic acid, ***conjugates*** with consensus peptides 3900-93-4D, ***conjugates*** with consensus peptides 3970-35-2D, ***conjugates*** with consensus peptides 3971-31-1D, 1,3-Cyclohexanedicarboxylic acid, ***conjugates*** with consensus peptides 3984-34-7D, ***conjugates*** with consensus peptides 4026-18-0D, ***conjugates*** with consensus peptides 4033-40-3D, ***conjugates*** with consensus peptides 4042-36-8D, ***conjugates*** with consensus peptides 4052-30-6D, ***conjugates*** with consensus peptides 4075-59-6D, ***conjugates*** with consensus peptides 4224-70-8D, ***conjugates*** with consensus peptides 4251-21-2D, 1,4-Benzenedipropanoic acid, ***conjugates*** with consensus peptides 4282-31-9D, 2,5-Thiophenedicarboxylic acid, ***conjugates*** with consensus peptides 4355-11-7D, 1,1-Cyclohexanediacetic acid, ***conjugates*** with consensus peptides 4376-18-5D, ***conjugates*** with consensus peptides 4389-53-1D, ***conjugates*** with consensus peptides 4394-00-7D, ***conjugates*** with consensus peptides 4397-53-9D, 4-Benzyloxybenzaldehyde, ***conjugates*** with consensus peptides 4431-00-9D, Aurintricarboxylic acid, ***conjugates*** with consensus peptides 4441-63-8D, Cyclohexanebutanoic acid, ***conjugates*** with consensus peptides 4519-39-5D, ***conjugates*** with consensus peptides 4521-28-2D, ***conjugates*** with consensus peptides 4536-23-6D, ***conjugates*** with consensus peptides 4547-57-3D, 4-Butoxyphenylacetic acid, ***conjugates*** with consensus peptides 4552-50-5D, ***conjugates*** with consensus peptides 4593-90-2D, ***conjugates*** with consensus peptides 4619-20-9D, ***conjugates*** with consensus peptides 4670-10-4D, (3,5-Dimethoxyphenyl)acetic acid, ***conjugates*** with consensus peptides 4707-95-3D, ***conjugates*** with consensus peptides 4767-03-7D, ***conjugates*** with consensus peptides 4771-47-5D, ***conjugates*** with consensus peptides 4790-79-8D,

conjugates with consensus peptides 4890-85-1D, ***conjugates*** with consensus peptides 4919-33-9D, ***conjugates*** with consensus peptides 4940-39-0D, ***conjugates*** with consensus peptides 4998-07-6D, ***conjugates*** with consensus peptides 5006-44-0D, ***conjugates*** with consensus peptides 5081-36-7D, ***conjugates*** with consensus peptides 5106-98-9D, ***conjugates*** with consensus peptides 5107-12-0D, ***conjugates*** with consensus peptides 5326-23-8D, ***conjugates*** with consensus peptides 5334-40-7D, ***conjugates*** with consensus peptides 5345-27-7D, ***conjugates*** with consensus peptides 5402-73-3D, ***conjugates*** with consensus peptides 5409-31-4D, ***conjugates*** with consensus peptides 5411-14-3D, ***conjugates*** with consensus peptides 5427-26-9D, ***conjugates*** with consensus peptides 5429-28-7D, ***conjugates*** with consensus peptides 5438-19-7D, ***conjugates*** with consensus peptides 5438-36-8D, 5-Iodovanillin, ***conjugates*** with consensus peptides 5438-68-6D, ***conjugates*** with consensus peptides 5447-02-9D, 3,4-Dibenzyloxybenzaldehyde, ***conjugates*** with consensus peptides 5451-55-8D, ***conjugates*** with consensus peptides 5469-45-4D, ***conjugates*** with consensus peptides 5521-55-1D, ***conjugates*** with consensus peptides 5600-62-4D, ***conjugates*** with consensus peptides 5636-68-0D, ***conjugates*** with consensus peptides 5657-19-2D, ***conjugates*** with consensus peptides 5672-83-3D, ***conjugates*** with consensus peptides 5683-31-8D, ***conjugates*** with consensus peptides 5715-76-4D, ***conjugates*** with consensus peptides 5718-83-2D, ***conjugates*** with consensus peptides 5728-52-9D, [1,1'-Biphenyl]-4-acetic acid, ***conjugates*** with consensus peptides 5731-13-5D, 4'-Ethyl-4-biphenylcarboxylic acid, ***conjugates*** with consensus peptides 5736-85-6D, 4-Propoxybenzaldehyde, ***conjugates*** with consensus peptides 5736-88-9D, 4-Butoxybenzaldehyde, ***conjugates*** with consensus peptides 5736-94-7D, 4-Hexyloxybenzaldehyde, ***conjugates*** with consensus peptides 5811-87-0D, 1,8-Naphthaldehydic acid, ***conjugates*** with consensus peptides 5947-49-9D, ***conjugates*** with consensus peptides 5962-42-5D, ***conjugates*** with consensus peptides 5962-88-9D, Cyclohexanepentanoic acid, ***conjugates*** with consensus peptides 5995-86-8D, Gallic acid monohydrate, ***conjugates*** with consensus peptides 6054-99-5D, Mordant Yellow 10, ***conjugates*** with consensus peptides
RL: PAC (Pharmacological activity); THU (Therapeutic use); ***BIOL (Biological study)***; USES (Uses)
(protein kinase C inhibitors and methods for identifying same for disease treatment)

IT 6064-63-7D, ***conjugates*** with consensus peptides 6089-09-4D, 4-Pentynoic acid, ***conjugates*** with consensus peptides 6120-95-2D, ***conjugates*** with consensus peptides 6236-09-5D, ***conjugates*** with consensus peptides 6280-80-4D, 2-Formylphenoxyacetic acid, ***conjugates*** with consensus peptides 6284-80-6D, 9H-Fluorene-9-acetic acid, ***conjugates*** with consensus peptides 6286-46-0D, ***conjugates*** with consensus peptides 6318-55-4D, ***conjugates*** with consensus peptides 6326-83-6D, ***conjugates*** with consensus peptides 6340-79-0D, ***conjugates*** with consensus peptides 6404-31-5D,

conjugates with consensus peptides 6553-96-4D, ***conjugates*** with consensus peptides 6624-49-3D, 3-Isoquinolinecarboxylic acid, ***conjugates*** with consensus peptides 6914-76-7D, ***conjugates*** with consensus peptides 6914-79-0D, ***conjugates*** with consensus peptides 6939-93-1D, ***conjugates*** with consensus peptides 6950-82-9D, ***conjugates*** with consensus peptides 6954-55-8D, 9H-Fluorene-4-carboxylic acid, ***conjugates*** with consensus peptides 6964-21-2D, 3-Thiopheneacetic acid, ***conjugates*** with consensus peptides 6973-60-0D, ***conjugates*** with consensus peptides 7021-09-2D, ***conjugates*** with consensus peptides 7053-88-5D, ***conjugates*** with consensus peptides 7304-32-7D, ***conjugates*** with consensus peptides 7326-19-4D, ***conjugates*** with consensus peptides 7345-82-6D, ***conjugates*** with consensus peptides 7355-22-8D, ***conjugates*** with consensus peptides 7423-55-4D, ***conjugates*** with consensus peptides 7432-21-5D, ***conjugates*** with consensus peptides 7649-92-5D, ***conjugates*** with consensus peptides 7697-26-9D, ***conjugates*** with consensus peptides 7782-37-8D, ***conjugates*** with consensus peptides 7795-95-1D, 1-Octanesulfonyl chloride, ***conjugates*** with consensus peptides 7797-83-3D, 2,3-(Methylenedioxy)benzaldehyde, ***conjugates*** with consensus peptides 10154-71-9D, ***conjugates*** with consensus peptides 10269-96-2D, ***conjugates*** with consensus peptides 10443-65-9D, ***conjugates*** with consensus peptides 10463-20-4D, ***conjugates*** with consensus peptides 10516-71-9D, ***conjugates*** with consensus peptides 10538-51-9D, ***conjugates*** with consensus peptides 13064-83-0D, ***conjugates*** with consensus peptides 13205-46-4D, ***conjugates*** with consensus peptides 13205-48-6D, ***conjugates*** with consensus peptides 13205-49-7D, ***conjugates*** with consensus peptides 13402-96-5D, ***conjugates*** with consensus peptides 13419-69-7D, ***conjugates*** with consensus peptides 13505-32-3D, ***conjugates*** with consensus peptides 13506-76-8D, ***conjugates*** with consensus peptides 13545-04-5D, ***conjugates*** with consensus peptides 13575-74-1D, ***conjugates*** with consensus peptides 13677-79-7D, ***conjugates*** with consensus peptides 13794-14-4D, ***conjugates*** with consensus peptides 14112-98-2D, ***conjugates*** with consensus peptides 14615-72-6D, 3,5-Dibenzyloxybenzaldehyde, ***conjugates*** with consensus peptides 14737-91-8D, ***conjugates*** with consensus peptides 14892-14-9D, ***conjugates*** with consensus peptides 15030-72-5D, ***conjugates*** with consensus peptides 15074-54-1D, ***conjugates*** with consensus peptides 15084-51-2D, ***conjugates*** with consensus peptides 15641-58-4D, ***conjugates*** with consensus peptides 15687-27-1D, ***conjugates*** with consensus peptides 15872-41-0D, ***conjugates*** with consensus peptides 15872-43-2D, ***conjugates*** with consensus peptides 16024-58-1D, ***conjugates*** with consensus peptides 16036-85-4D, ***conjugates*** with consensus peptides 16136-58-6D, ***conjugates*** with consensus peptides 16188-55-9D, ***conjugates*** with consensus peptides 16225-26-6D, ***conjugates*** with consensus peptides 16273-37-3D, ***conjugates*** with consensus peptides 16526-68-4D, ***conjugates*** with consensus peptides 16533-71-4D,

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conjugates with consensus peptides 16534-12-6D, ***conjugates*** with consensus peptides 16555-77-4D, ***conjugates*** with consensus peptides 16588-34-4D, 4-Chloro-3-nitrobenzaldehyde, ***conjugates*** with consensus peptides 16629-19-9D, 2-Thiophenesulfonyl chloride, ***conjugates*** with consensus peptides 16727-43-8D, ***conjugates*** with consensus peptides 16874-33-2D, ***conjugates*** with consensus peptides 17026-42-5D, ***conjugates*** with consensus peptides 17078-28-3D, ***conjugates*** with consensus peptides 17257-71-5D, ***conjugates*** with consensus peptides 17481-06-0D, ***conjugates*** with consensus peptides 17754-90-4D, 4-(Diethylamino)salicylaldehyde, ***conjugates*** with consensus peptides 17768-28-4D, ***conjugates*** with consensus peptides 17857-14-6D, ***conjugates*** with consensus peptides 18467-77-1D, ***conjugates*** with consensus peptides 18698-97-0D, ***conjugates*** with consensus peptides 18780-67-1D, ***conjugates*** with consensus peptides 18951-85-4D, ***conjugates*** with consensus peptides 19694-02-1D, 1-Pyrenecarboxylic acid, ***conjugates*** with consensus peptides 19719-28-9D, ***conjugates*** with consensus peptides 19728-63-3D, ***conjugates*** with consensus peptides 19771-63-2D, ***conjugates*** with consensus peptides 19887-32-2D, ***conjugates*** with consensus peptides 19910-33-9D, ***conjugates*** with consensus peptides 20312-36-1D, ***conjugates*** with consensus peptides 20357-25-9D, 6-Nitroveratraldehyde, ***conjugates*** with consensus peptides 20445-31-2D, ***conjugates*** with consensus peptides 20595-30-6D, ***conjugates*** with consensus peptides 20595-45-3D, ***conjugates*** with consensus peptides 20651-71-2D, ***conjugates*** with consensus peptides 20972-36-5D, ***conjugates*** with consensus peptides 20972-37-6D, ***conjugates*** with consensus peptides 21286-54-4D, ***conjugates*** with consensus peptides 21346-66-7D, ***conjugates*** with consensus peptides 21461-84-7D, ***conjugates*** with consensus peptides 21598-06-1D, ***conjugates*** with consensus peptides 21643-38-9D, ***conjugates*** with consensus peptides 21651-12-7D, trans-2,4-Pentadienoic acid, ***conjugates*** with consensus peptides 21752-35-2D, ***conjugates*** with consensus peptides 21752-36-3D, ***conjugates*** with consensus peptides 22084-89-5D, ***conjugates*** with consensus peptides 22106-33-8D, ***conjugates*** with consensus peptides 22204-53-1D, ***conjugates*** with consensus peptides 22219-63-2D, ***conjugates*** with consensus peptides 22921-68-2D, ***conjugates*** with consensus peptides 23243-68-7D, ***conjugates*** with consensus peptides 23359-08-2D, 4-Formylcinnamic acid, ***conjugates*** with consensus peptides 23814-12-2D, 1H-Benzotriazole-5-carboxylic acid, ***conjugates*** with consensus peptides 24467-92-3D, ***conjugates*** with consensus peptides 24677-78-9D, 2,3-Dihydroxybenzaldehyde, ***conjugates*** with consensus peptides 24974-75-2D, ***conjugates*** with consensus peptides 25140-86-7D, (±)-2-(2-Chlorophenoxy)propionic acid, ***conjugates*** with consensus peptides 25173-72-2D, ***conjugates*** with consensus peptides 25999-20-6D, Lasalocid Sodium Salt, ***conjugates*** with consensus peptides 26153-38-8D, 3,5-Dihydroxybenzaldehyde, ***conjugates*** with consensus peptides 26311-45-5D, ***conjugates*** with consensus peptides 26934-35-0D, 4-(3-Dimethylaminopropoxy)benzaldehyde, ***conjugates*** with consensus peptides 27115-49-7D, ***conjugates*** with consensus

peptides 27115-50-0D, ***conjugates*** with consensus peptides 27593-22-2D, ***conjugates*** with consensus peptides 27696-01-1D, ***conjugates*** with consensus peptides 28166-41-8D, ***conjugates*** with consensus peptides 28169-46-2D, ***conjugates*** with consensus peptides 28314-80-9D, ***conjugates*** with consensus peptides 28752-82-1D, 2-Allyloxybenzaldehyde, ***conjugates*** with consensus peptides 29427-69-8D, ***conjugates*** with consensus peptides 29555-02-0D, ***conjugates*** with consensus peptides 29582-31-8D, trans-3-(4-Ethoxybenzoyl)acrylic acid, ***conjugates*** with consensus peptides 29668-44-8D, 1,4-Benzodioxan-6-carboxaldehyde, ***conjugates*** with consensus peptides 29678-81-7D, ***conjugates*** with consensus peptides 29973-91-9D, ***conjugates*** with consensus peptides 30529-70-5D, ***conjugates*** with consensus peptides 31519-22-9D, ***conjugates*** with consensus peptides 32634-66-5D, ***conjugates*** with consensus peptides 32634-68-7D, ***conjugates*** with consensus peptides 32723-67-4D, 3-Methylp-anisaldehyde, ***conjugates*** with consensus peptides 32857-62-8D, ***conjugates*** with consensus peptides 32862-97-8D, ***conjugates*** with consensus peptides 32890-87-2D, ***conjugates*** with consensus peptides 32890-94-1D, ***conjugates*** with consensus peptides 33184-16-6D, ***conjugates*** with consensus peptides 33513-44-9D, ***conjugates*** with consensus peptides 33697-81-3D, ***conjugates*** with consensus peptides 33744-74-0D, ***conjugates*** with consensus peptides 33996-33-7D, ***conjugates*** with consensus peptides 34225-81-5D, ***conjugates*** with consensus peptides 36015-19-7D, 2-Chloro-5-nitrocinnamic acid, ***conjugates*** with consensus peptides 36413-60-2D, ***conjugates*** with consensus peptides 36838-63-8D, ***conjugates*** with consensus peptides 37718-11-9D, 1H-Pyrazole-4-carboxylic acid, ***conjugates*** with consensus peptides 37777-76-7D, ***conjugates*** with consensus peptides 37942-07-7D, 3,5-Di-tert-butyl-2-hydroxybenzaldehyde, ***conjugates*** with consensus peptides 38289-29-1D, ***conjugates*** with consensus peptides 38521-46-9D, ***conjugates*** with consensus peptides 38867-17-3D, ***conjugates*** with consensus peptides 39515-51-0D, 3-Phenoxybenzaldehyde, ***conjugates*** with consensus peptides 39589-98-5D, ***conjugates*** with consensus peptides 40138-16-7D, 2-Formylphenylboronic acid, ***conjugates*** with consensus peptides 40932-60-3D, ***conjugates*** with consensus peptides 41019-45-8D, ***conjugates*** with consensus peptides 41667-95-2D, ***conjugates*** with consensus peptides 42013-20-7D, ***conjugates*** with consensus peptides 42580-42-7D, ***conjugates*** with consensus peptides 48172-10-7D, ***conjugates*** with consensus peptides 50772-35-5D, ***conjugates*** with consensus peptides 50874-31-2D, ***conjugates*** with consensus peptides 50910-55-9D, 2-Amino-3,5-dibromobenzaldehyde, ***conjugates*** with consensus peptides 50996-73-1D, ***conjugates*** with consensus peptides 51146-56-6D, ***conjugates*** with consensus peptides 51546-12-4D, ***conjugates*** with consensus peptides 51568-18-4D, ***conjugates*** with consensus peptides 52034-92-1D, ***conjugates*** with consensus peptides 53101-49-8D, ***conjugates*** with consensus peptides 53174-06-4D, ***conjugates*** with consensus peptides 53188-07-1D, ***conjugates*** with consensus peptides 53483-12-8D, ***conjugates*** with consensus peptides 53585-93-6D,

conjugates with consensus peptides 53623-42-0D, ***conjugates*** with consensus peptides ***53669-33-3D***, 4-Acetoxy-3,5-dimethoxybenzaldehyde, ***conjugates*** with consensus peptides 54574-82-2D, ***conjugates*** with consensus peptides 54673-07-3D, ***conjugates*** with consensus peptides 55775-97-8D, ***conjugates*** with consensus peptides 56586-13-1D, ***conjugates*** with consensus peptides 57105-39-2D, ***conjugates*** with consensus peptides 57105-42-7D, ***conjugates*** with consensus peptides 57105-45-0D, ***conjugates*** with consensus peptides 57105-50-7D, ***conjugates*** with consensus peptides 57822-06-7D, ***conjugates*** with consensus peptides 58574-03-1D, ***conjugates*** with consensus peptides 59004-95-4D, ***conjugates*** with consensus peptides 59160-29-1D, ***conjugates*** with consensus peptides 59760-01-9D, ***conjugates*** with consensus peptides 60491-16-9D, ***conjugates*** with consensus peptides 61475-31-8D, ***conjugates*** with consensus peptides 62935-72-2D, ***conjugates*** with consensus peptides 64326-19-8D, ***conjugates*** with consensus peptides 64700-15-8D, ***conjugates*** with consensus peptides 64709-55-3D, 1-Pyreneacetic acid, ***conjugates*** with consensus peptides 65259-81-6D, ***conjugates*** with consensus peptides 65489-71-6D, ***conjugates*** with consensus peptides 67648-61-7D, ***conjugates*** with consensus peptides 69056-67-3D, ***conjugates*** with consensus peptides 69760-86-7D, ***conjugates*** with consensus peptides 70748-53-7D, ***conjugates*** with consensus peptides 72856-73-6D, 2-Methoxy-4-(methylthio)-benzoic acid, ***conjugates*** with consensus peptides 73152-70-2D, ***conjugates*** with consensus peptides 74927-72-3D, ***conjugates*** with consensus peptides 74928-54-4D, ***conjugates*** with consensus peptides 74958-71-7D, ***conjugates*** with consensus peptides 78725-46-9D, 3-(3-(Trifluoromethyl)phenoxy)benzaldehyde, ***conjugates*** with consensus peptides 79124-76-8D, 3-(3,4-Dichlorophenoxy)benzaldehyde, ***conjugates*** with consensus peptides 79410-20-1D, ***conjugates*** with consensus peptides 79815-20-6D, (S)-Indoline-2-carboxylic acid, ***conjugates*** with consensus peptides 80789-69-1D, ***conjugates*** with consensus peptides 80866-86-0D, ***conjugates*** with consensus peptides 81172-89-6D, Terephthalaldehyde mono(diethyl acetal), ***conjugates*** with consensus peptides 81228-09-3D, ***conjugates*** with consensus peptides 81311-95-7D, ***conjugates*** with consensus peptides 81925-04-4D, ***conjugates*** with consensus peptides 82998-57-0D, ***conjugates*** with consensus peptides 83511-07-3D, ***conjugates*** with consensus peptides 84392-17-6D, ***conjugates*** with consensus peptides 85068-27-5D, ***conjugates*** with consensus peptides 85068-28-6D, ***conjugates*** with consensus peptides 85068-33-3D, ***conjugates*** with consensus peptides 86023-17-8D, ***conjugates*** with consensus peptides 86522-89-6D, ***conjugates*** with consensus peptides

RL: PAC (Pharmacological activity); THU (Therapeutic use); ***BIOL (Biological study)***; USES (Uses)

(protein kinase C inhibitors and methods for identifying same for disease treatment)

IT 87199-16-4D, 3-Formylphenylboronic acid, ***conjugates*** with consensus peptides 87199-17-5D, 4-Formylphenylboronic acid, ***conjugates*** with consensus peptides 88768-45-0D,

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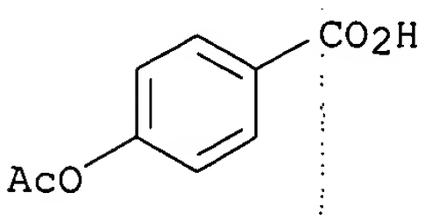
conjugates with consensus peptides 90134-10-4D, 4-(Dibutylamino)benzaldehyde, ***conjugates*** with consensus peptides 94108-56-2D, ***conjugates*** with consensus peptides 94133-41-2D, ***conjugates*** with consensus peptides 94977-52-3D, ***conjugates*** with consensus peptides 95233-12-8D, ***conjugates*** with consensus peptides 96623-58-4D, ***conjugates*** with consensus peptides 99333-54-7D, ***conjugates*** with consensus peptides 99799-10-7D, ***conjugates*** with consensus peptides 102082-89-3D, ***conjugates*** with consensus peptides 102936-05-0D, ***conjugates*** with consensus peptides 108519-67-1D, ***conjugates*** with consensus peptides 110877-64-0D, ***conjugates*** with consensus peptides 112897-97-9D, ***conjugates*** with consensus peptides 112898-33-6D, ***conjugates*** with consensus peptides 113221-74-2D, ***conjugates*** with consensus peptides 115029-22-6D, ***conjugates*** with consensus peptides 115029-24-8D, ***conjugates*** with consensus peptides 118514-35-5D, ***conjugates*** with consensus peptides 130525-39-2D, ***conjugates*** with consensus peptides 131401-56-4D, ***conjugates*** with consensus peptides 132201-33-3D, ***conjugates*** with consensus peptides 132794-07-1D, ***conjugates*** with consensus peptides 141179-72-8D, ***conjugates*** with consensus peptides 144332-60-5D, ***conjugates*** with consensus peptides 147700-58-1D, ***conjugates*** with consensus peptides 163438-05-9D, ***conjugates*** with consensus peptides 163725-12-0D, ***conjugates*** with consensus peptides 188815-32-9D, ***conjugates*** with consensus peptides 198348-89-9D, ***conjugates*** with consensus peptides 199679-38-4D, ***conjugates*** with consensus peptides 206986-82-5D, ***conjugates*** with consensus peptides 207556-13-6D, ***conjugates*** with consensus peptides 207742-85-6D, ***conjugates*** with consensus peptides 207742-86-7D, ***conjugates*** with consensus peptides 863482-36-4 863482-37-5 863482-38-6 863482-39-7 863482-40-0 863482-41-1 863482-42-2 863482-50-2D, ***conjugates*** with chemical moieties 863482-51-3D, ***conjugates*** with chemical moieties 863482-52-4D, ***conjugates*** with chemical moieties 863482-53-5D, ***conjugates*** with consensus peptides 863482-55-7D, ***conjugates*** with consensus peptides
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(protein kinase C inhibitors and methods for identifying same for disease treatment)

IT ***2345-34-8D***, 4-Acetoxybenzoic acid, ***conjugates*** with consensus peptides ***53669-33-3D***, 4-Acetoxy-3,5-dimethoxybenzaldehyde, ***conjugates*** with consensus peptides
RL: PAC (Pharmacological activity); THU (Therapeutic use); ***BIOL (Biological study)***; USES (Uses)
(protein kinase C inhibitors and methods for identifying same for disease treatment)

RN 2345-34-8 HCAPLUS

CN Benzoic acid, 4-(acetyloxy)- (9CI) (CA INDEX NAME)



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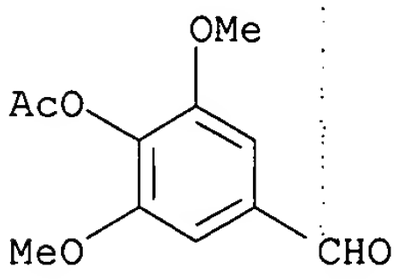
RN 53669-33-3 HCAPLUS
CN Benzaldehyde, 4-(acetyloxy)-3,5-dimethoxy- (9CI) (CA INDEX NAME)



L134 ANSWER 3 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:931127 HCAPLUS
DOCUMENT NUMBER: 140:784
TITLE: Esterified N-hydroxypiperidine compounds for the amelioration of the development of cataracts and other opthalmic diseases, preparation thereof, and compositions containing them
INVENTOR(S): Matier, William L.; Patil, Ghanshyam
PATENT ASSIGNEE(S): Othera Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 59 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003096991	A2	20031127	WO 2003-US15948	20030519
WO 2003096991	A3	20040226		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2484512	AA	20031127	CA 2003-2484512	20030519
AU 2003243282	A1	20031202	AU 2003-243282	20030519
EP 1507826	A2	20050223	EP 2003-753107	20030519
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1653125	A	20050810	CN 2003-811221	20030519
JP 2005527605	T2	20050915	JP 2004-504990	20030519
NO 2004005483	A	20041216	NO 2004-5483	20041216

PRIORITY APPLN. INFO.: US 2002-381287P P 20020517
WO 2003-US15948 W 20030519

OTHER SOURCE(S): MARPAT 140:784
GI

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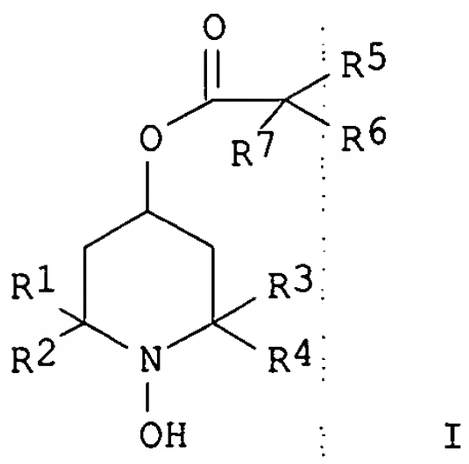


I

AB Opthalmically acceptable compns. used in arresting the development of cataracts or macular degeneration comprise a pharmaceutically acceptable ***carrier*** or diluent and a compound I (R1, R2 = H, C1-3 alkyl, or R1 and R2 taken together form cycloalkyl; R3, R4 = C1-3 alkyl, or R3 and R4 taken together form cycloalkyl; R5 = H, OH, C1-6 alkyl; R6 = C1-6 alkyl, alkenyl, alkynyl, or substituted alkyl or alkenyl; R7 = C1-6 alkyl, alkenyl, alkynyl, or substituted alkyl or alkenyl, or R6 and R7, or R5, R6 and R7, taken together, form 3-7-membered carbocycle or heterocycle).

IC ICM A61K

CC 1-12 (Pharmacology)
Section cross-reference(s): 27, 63

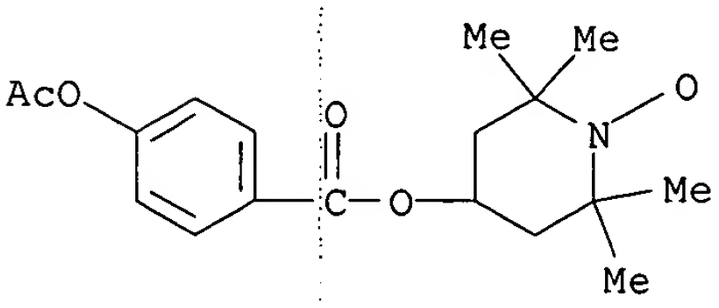
IT ***Biological transport***
(drug; esterified hydroxypiperidine compds. for amelioration of development of cataracts and other opthalmic diseases, preparation, and compns.)

IT 4972-11-6D, 4-substituted derivs. 40520-87-4 50995-90-9 87321-85-5
166438-11-5 627085-08-9 627085-26-1 627085-27-2 627085-28-3
627085-29-4 627085-30-7 627085-31-8 627085-32-9 627085-33-0
627085-34-1 627085-35-2 627085-36-3 627085-37-4 627085-38-5
627085-39-6 627085-40-9 627085-41-0 627085-42-1 ***627085-43-2***
627085-44-3 627085-45-4 627085-46-5 627085-47-6
627085-48-7 627085-49-8 627085-50-1 627085-51-2 627085-52-3
627085-53-4
RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); ***BIOL (Biological study)***; USES (Uses)
(esterified hydroxypiperidine compds. for amelioration of development of cataracts and other opthalmic diseases, preparation, and compns.)

IT ***627085-43-2 627085-44-3***
RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); ***BIOL (Biological study)***; USES (Uses)
(esterified hydroxypiperidine compds. for amelioration of development of cataracts and other opthalmic diseases, preparation, and compns.)

RN 627085-43-2 HCAPLUS

CN 1-Piperidinyloxy, 4-[[4-(acetyloxy)benzoyl]oxy]-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



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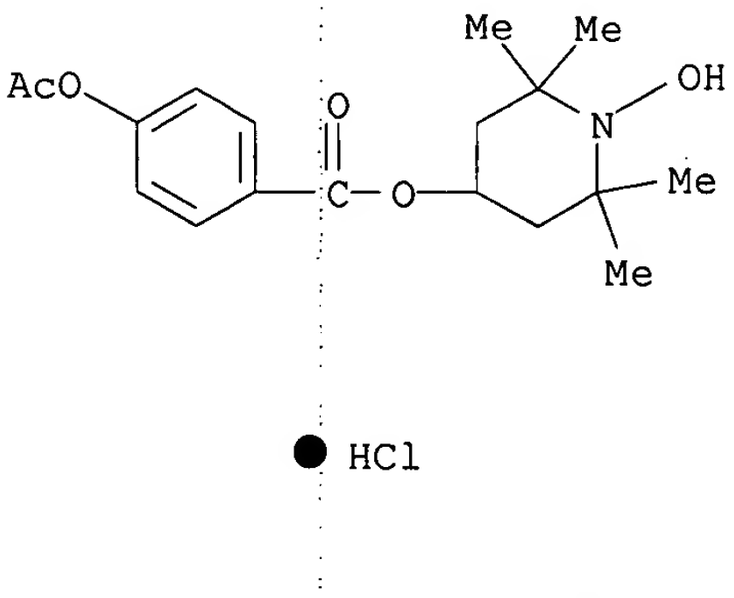
RN 627085-44-3 HCAPLUS
CN Benzoic acid, 4-(acetyloxy)-, 1-hydroxy-2,2,6,6-tetramethyl-4-piperidinyl ester, hydrochloride (9CI) (CA INDEX NAME)



● HCl

L134 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:493399 HCAPLUS
DOCUMENT NUMBER: 141:67978
TITLE: Catecholates and mixed catecholate hydroxamates as artificial siderophores for mycobacteria
AUTHOR(S): Wittmann, Steffen; Heinisch, Lothar; Scherlitz-Hofmann, Ina; Stoiber, Thomas; Ankel-Fuchs, Dorothe; Moellmann, Ute
CORPORATE SOURCE: Hans Knoell-Institute for Natural Products Research, Jena, Germany
SOURCE: BioMetals (2004), 17(1), 53-64
CODEN: BOMEEH; ISSN: 0966-0844
PUBLISHER: Kluwer Academic Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Different mono-, bis- or triscatecholates and mixed mono- or biscatecholate hydroxamates, including I, II, III, and IV, were synthesized as potential siderophores for mycobacteria. Siderophore activity was tested by growth promotion assays using wild type strains and iron transport mutants of mycobacteria as well as Gram-neg. bacteria. Some triscatecholates and biscatecholate hydroxamates were active in mutants of Mycobacterium smegmatis deficient in mycobactin and exochelin biosynthesis or exochelin permease, resp., indicating an uptake route independent of the exochelin/mycobactin pathway. Structure-activity relationships were studied. Ampicillin ***conjugates*** of some of these compds. were inactive against mycobacteria but active against Gram-neg. bacteria.
CC 10-2 (Microbial, Algal, and Fungal Biochemistry)
Section cross-reference(s): 25
IT Siderophores
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(***conjugates*** with ampicillin; antibacterial activity of)
IT ***Biological transport***

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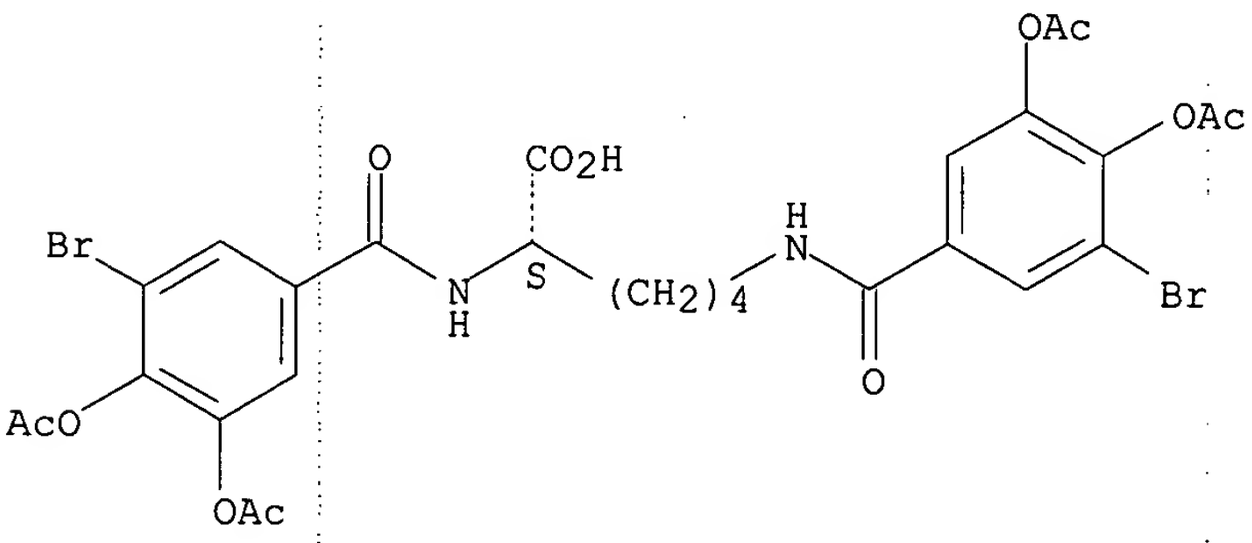
(iron; catecholates and mixed catecholate hydroxamates as artificial siderophores for mycobacteria)
IT 69-53-4D, Ampicillin, ***conjugates*** with siderophore analogs
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(antibacterial activity of)
IT 709658-43-5P 709658-44-6P 709658-47-9P 709658-49-1P 709658-50-4P
709658-54-8P ***709658-56-0P*** 709658-63-9P 709658-64-0P
709658-65-1P
RL: BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); ***BIOL (Biological study)***; PREP (Preparation)
(preparation, structure, and siderophore activity in mycobacteria and gram-neg. bacteria)
IT ***709658-56-0P***
RL: BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); ***BIOL (Biological study)***; PREP (Preparation)
(preparation, structure, and siderophore activity in mycobacteria and gram-neg. bacteria)
RN 709658-56-0 HCAPLUS
CN L-Lysine, N2,N6-bis[3,4-bis(acetyloxy)-5-bromobenzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L134 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:424649 HCAPLUS
DOCUMENT NUMBER: 137:63092
TITLE: Highly Antibacterial Active Aminoacyl Penicillin ***Conjugates*** with Acylated Bis-Catecholate Siderophores Based on Secondary Diamino Acids and Related Compounds
AUTHOR(S): Heinisch, Lothar; Wittmann, Steffen; Stoiber, Thomas; Berg, Albrecht; Ankel-Fuchs, Dorothe; Moellmann, Ute
CORPORATE SOURCE: Hans Knoell-Institute for Natural Products Research, Jena, Germany
SOURCE: Journal of Medicinal Chemistry (2002), 45(14), 3032-3040
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 137:63092
GI

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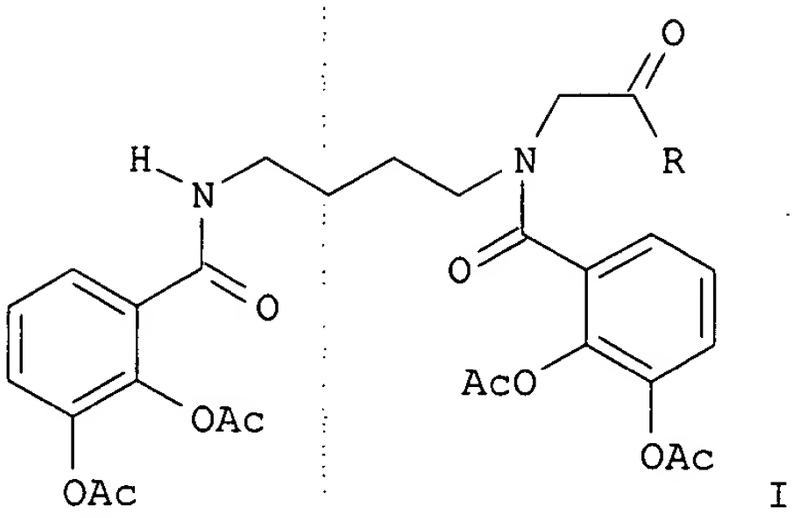

I

AB New acylated bis-catecholates and 1,3-benzoxazine-2,4-dione derivs. based on secondary diamino acids (N-(aminoalkyl)glycines, N-aminopropyl-alanine, and N-aminopropyl-4-aminovaleric acid), on N-(aminoalkyl)aminomethyl benzoic acids, on N-(aminoalkyl)aminomethyl phenoxyacetic acids, or on 3,5-diaminobenzoic acid were synthesized as artificial siderophores. The corresponding diamino acids were obtained from the diamines and oxocarboxylic acids by catalytic hydrogenation. The acylated bis-catecholates and 1,3-benzoxazine-2,4-diones were coupled with ampicillin or amoxicillin to new siderophore aminoacylpenicillin ***conjugates***. These ***conjugates*** exhibited very strong antibacterial activity in vitro against Gram-neg. bacterial pathogens including Pseudomonas aeruginosa, Stenotrophomonas maltophilia, Escherichia coli, Klebsiella pneumoniae, and Serratia marcescens. The ampicillin derivative I (R = ampicillin) (HKI 9924154) and the corresponding amoxicillin derivative I (R = amoxicillin) (HKI 9924155) represent the most active compds. The ***conjugates*** can use bacterial iron siderophore uptake routes to penetrate the Gram-neg. outer membrane permeability barrier. This was demonstrated by assays with mutants deficient in components of the iron transport systems. New siderophore penicillin V ***conjugates*** with the siderophore component attached to the Ph ring of penicillin V are inactive against these Gram-neg. bacteria.

CC 26-5 (Biomolecules and Their Synthetic Analogs)
Section cross-reference(s): 10, 34

ST penicillin ***conjugate*** acylated catecholate siderophore prepn antibacterial; aminoacyl penicillin ***conjugate*** prepn iron complexation antibacterial; siderophore aminoacyl penicillin ***conjugate*** prepn; diamino acid acylated penicillin deriv prepn antibacterial; artificial siderophore aminoacyl penicillin

IT Antibacterial agents
Complexation
(preparation, antibacterial, siderophore, and iron-complexing activities of aminoacyl penicillin ***conjugates*** with acylated bis-catecholate siderophores)

IT Siderophores
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation, antibacterial, siderophore, and iron-complexing activities of aminoacyl penicillin ***conjugates*** with acylated bis-catecholate siderophores)

IT 201296-72-2P 212776-99-3P 212777-03-2P 212777-05-4P 439216-63-4P
439216-81-6P 439216-82-7P 439216-83-8P 439216-84-9P 439216-85-0P
439216-86-1P 439216-87-2P ***439216-88-3P*** 439216-89-4P

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439216-90-7P 439216-91-8P 439216-93-0P 439216-94-1P 439216-95-2P
RL: BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); ***BIOL (Biological study)***; PREP (Preparation); RACT (Reactant or reagent)
(preparation, antibacterial, siderophore, and iron-complexing activities of aminoacyl penicillin ***conjugates*** with acylated bis-catecholate siderophores)

IT 212777-33-8P 212777-35-0P 212777-37-2P 439216-64-5P 439216-65-6P
439216-66-7P 439216-67-8P 439216-68-9P 439216-69-0P 439216-96-3P
439216-97-4P 439216-98-5P 439216-99-6P 439217-00-2P 439217-01-3P
439217-02-4P ***439217-03-5P*** 439217-04-6P 439217-05-7P
439217-06-8P 439217-07-9P 439217-08-0P 439217-09-1P
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); ***BIOL (Biological study)***; PREP (Preparation)
(preparation, antibacterial, siderophore, and iron-complexing activities of aminoacyl penicillin ***conjugates*** with acylated bis-catecholate siderophores)

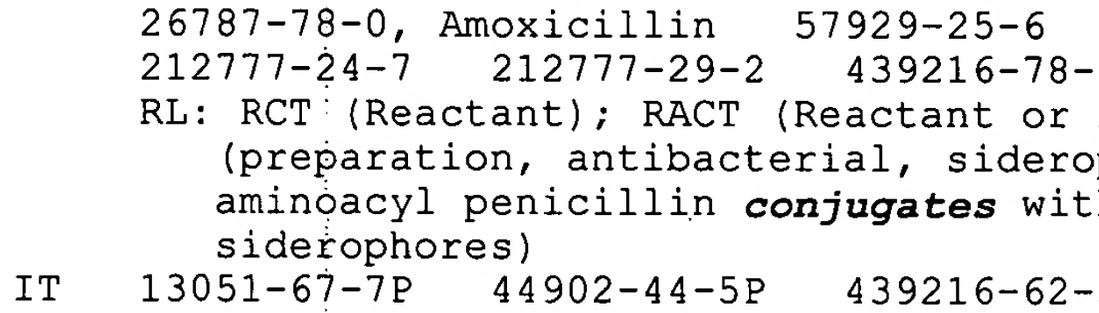
IT 69-53-4, Ampicillin 109-76-2, 1,3-Diaminopropane 110-60-1, 1,4-Butanediamine 119-67-5, 2-Formylbenzoic acid 123-76-2, 4-Oxopentanoic acid 127-17-3, 2-Oxopropanoic acid, reactions 462-94-2, 1,5-Pentanediamine 535-87-5, 3,5-Diaminobenzoic acid 551-16-6, 6-Aminopenicillanic acid 6280-80-4 6291-84-5 22042-71-3 24123-14-6 26787-78-0, Amoxicillin 57929-25-6 65055-19-8 201296-89-1 212777-24-7 212777-29-2 439216-78-1 439216-79-2 439216-80-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation, antibacterial, siderophore, and iron-complexing activities of aminoacyl penicillin ***conjugates*** with acylated bis-catecholate siderophores)

IT 13051-67-7P 44902-44-5P 439216-62-3P 439216-70-3P 439216-71-4P
439216-72-5P 439216-73-6P 439216-74-7P 439216-75-8P 439216-77-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, antibacterial, siderophore, and iron-complexing activities of aminoacyl penicillin ***conjugates*** with acylated bis-catecholate siderophores)

IT ***439216-88-3P***
RL: BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); ***BIOL (Biological study)***; PREP (Preparation); RACT (Reactant or reagent)
(preparation, antibacterial, siderophore, and iron-complexing activities of aminoacyl penicillin ***conjugates*** with acylated bis-catecholate siderophores)

RN 439216-88-3 HCAPLUS

CN Glycine, N-[3,4-bis(acetyloxy)benzoyl]-N-[4-[[3,4-bis(acetyloxy)benzoyl]amino]butyl]- (9CI) (CA INDEX NAME)



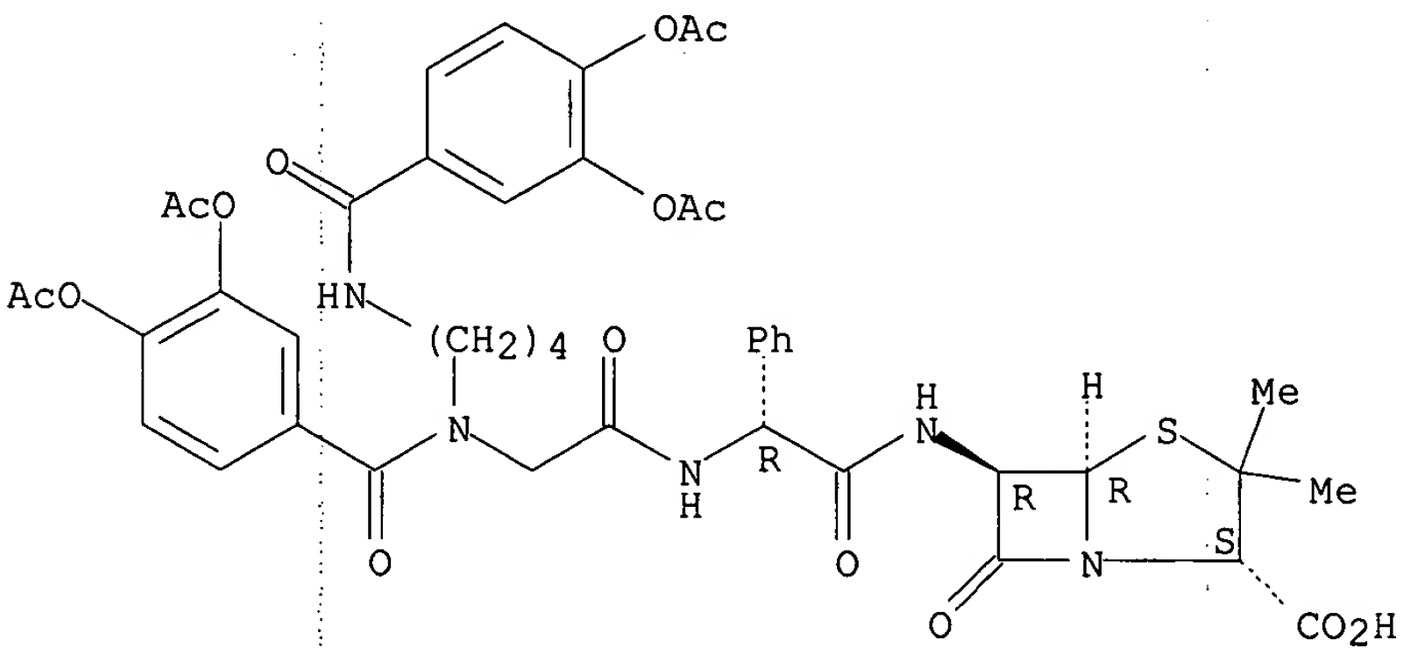
IT ***439217-03-5P***
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); ***BIOL (Biological study)***; PREP (Preparation)
(preparation, antibacterial, siderophore, and iron-complexing activities of

aminoacyl penicillin ***conjugates*** with acylated bis-catecholate siderophores)

RN 439217-03-5 HCAPLUS

CN Glycinamide, N-[3,4-bis(acetyloxy)benzoyl]-N-[4-[[3,4-bis(acetyloxy)benzoyl]amino]butyl]glycyl-N-[(2S,5R,6R)-2-carboxy-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]hept-6-yl]-2-phenyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L134 ANSWER 6 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:573493 HCAPLUS

DOCUMENT NUMBER: 129:290321

TITLE: Synthesis and in vitro antibacterial activity of catechol-spiramycin ***conjugates***

AUTHOR(S): Poras, Herve; Kunesch, Gerhard; Barriere, Jean-Claude; Berthaud, Nadine; Andremont, Antoine

CORPORATE SOURCE: Laboratoire de Chimie Bioorganique et Bioinorganique (CNRS, URA 1384), Centre d'Orsay, Universite de Paris-Sud, Orsay, F-91405, Fr.

SOURCE: Journal of Antibiotics (1998), 51(8), 786-794
CODEN: JANTAJ; ISSN: 0021-8820

PUBLISHER: Japan Antibiotics Research Association

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 129:290321

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The first synthesis of siderophore ***conjugates*** of two macrolide antibiotics, spiramycin (I) and neospiramycin (II), which are unable to penetrate the outer membrane of Gram-neg. bacteria are described. These novel ***conjugates*** were prepared by regioselective acylation of a hydroxyl function of I and II with a dihydroxybenzoic Fe(III) complexing ligand linked via a carboxyl group containing spacer to the macrolide

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antibiotics. The preliminary biol. evaluation of these novel ***conjugates*** under standard and iron depleted conditions has shown that their antibacterial activity was comparable to that of I and II.

CC 33-4 (Carbohydrates)
Section cross-reference(s): 1, 26

ST antibiotic catechol spiramycin siderophore ***conjugate*** prepn

IT Antibiotics
(synthesis and in vitro antibacterial activity of catechol-spiramycin ***conjugates***)

IT 70253-62-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(synthesis and in vitro antibacterial activity of catechol-spiramycin ***conjugates***)

IT 24916-50-5
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(synthesis and in vitro antibacterial activity of catechol-spiramycin ***conjugates***)

IT 89000-32-8P 214197-27-0P ***214197-28-1P*** 214197-30-5P
214197-31-6P 214197-32-7P 214197-34-9P 214197-35-0P 214197-36-1P
214197-38-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); ***BIOL (Biological study)***; PREP (Preparation); USES (Uses)
(synthesis and in vitro antibacterial activity of catechol-spiramycin ***conjugates***)

IT 100-51-6, Benzenemethanol, reactions 108-24-7, Acetic anhydride
303-38-8, 2,3-Dihydroxybenzoic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis and in vitro antibacterial activity of catechol-spiramycin ***conjugates***)

IT 486-79-3P, 2,3-Diacetoxybenzoic acid 5514-99-8P 16652-76-9P
26727-22-0P 42854-62-6P 70656-95-0P 201296-76-6P 214197-42-9P
214197-43-0P 214197-44-1P 214197-46-3P 214197-48-5P 214197-49-6P
214197-50-9P 214197-52-1P 214197-53-2P 214197-54-3P 214197-55-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis and in vitro antibacterial activity of catechol-spiramycin ***conjugates***)

IT ***214197-28-1P***
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); ***BIOL (Biological study)***; PREP (Preparation); USES (Uses)
(synthesis and in vitro antibacterial activity of catechol-spiramycin ***conjugates***)

RN 214197-28-1 HCAPLUS

CN Leucomycin V, 9-O-[(2R,5S,6R)-5-(dimethylamino)tetrahydro-6-methyl-2H-pyran-2-yl]-, 2A-[3,4-bis(acetyloxy)benzoate] (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

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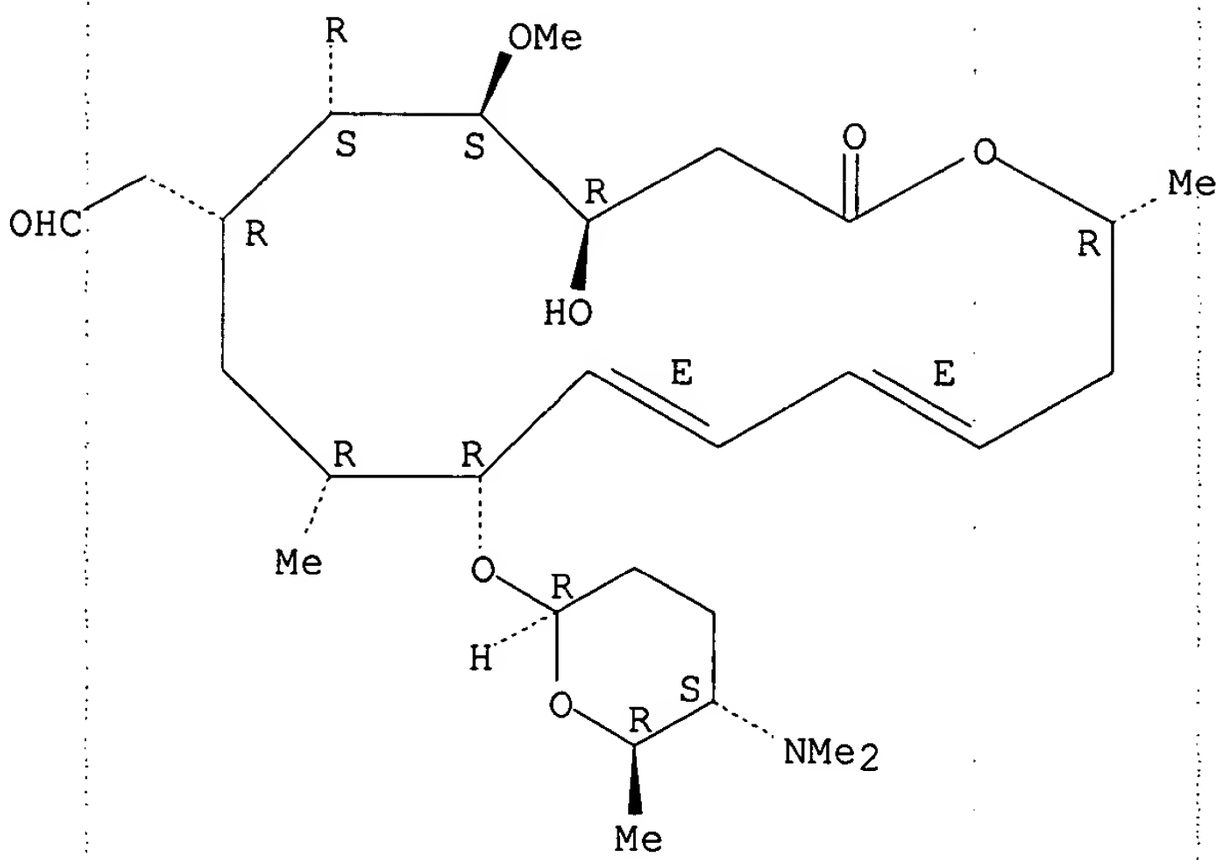
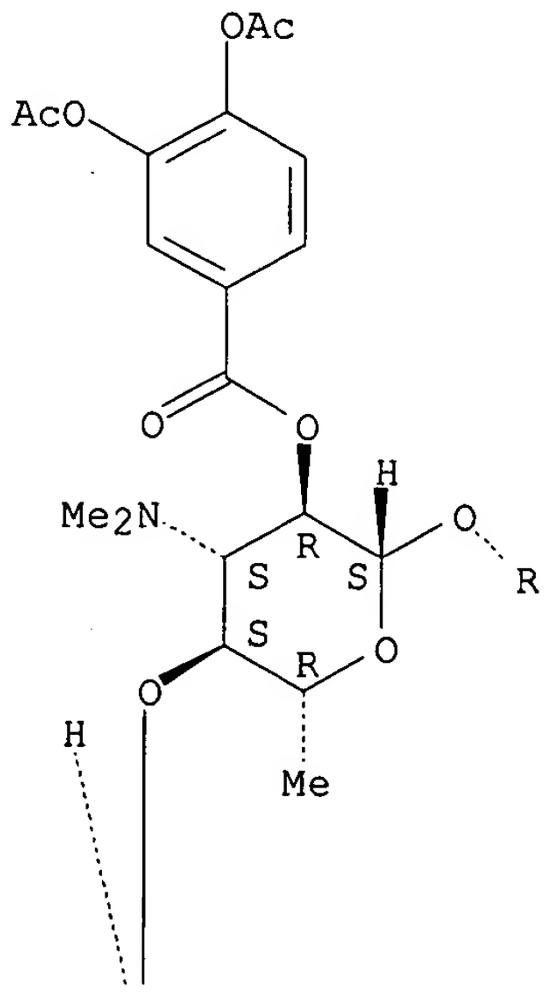
PAGE 1-A



PAGE 2-A



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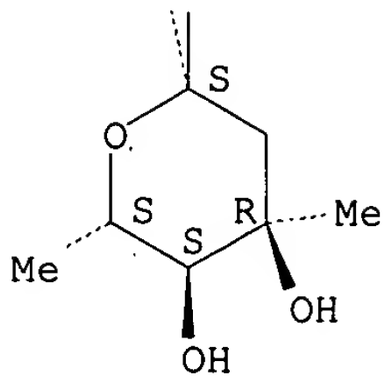
PAGE 3-A



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L134 ANSWER 7 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1998:243816 HCAPLUS
DOCUMENT NUMBER: 128:309039
TITLE: Moisture transport studies on newly developed aromatic and aromatic/aliphatic copolyester thin films
AUTHOR(S): Shi, Frank F.; Economy, James
CORPORATE SOURCE: Integrated Device Technology, Inc., Hillsboro, OR, 97124, USA
SOURCE: Journal of Polymer Science, Part B: Polymer Physics (1998), 36(6), 1025-1035
CODEN: JPBPEM; ISSN: 0887-6266
PUBLISHER: John Wiley & Sons, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB In polymers for microelectronics applications, moisture has a deleterious effect upon device reliability. The moisture transport behaviors of a newly developed family of all-aromatic and aromatic/aliphatic copolyester thermo-setting films were described. The moisture uptake as a function of temperature, relative humidity, sample thickness, and processing conditions were presented via ***conjugate*** moisture sorption tests. The post-curing near but below Tg resulted in an increase in both total moisture uptake and diffusion coefficient due to the effect of phys. aging and the generation of sample defect volume ***176516-40-8***. P P P P.

CC 37-5 (Plastics Manufacture and Processing)
Section cross-reference(s): 76

REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L134 ANSWER 8 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1997:414801 HCAPLUS
DOCUMENT NUMBER: 127:108624
TITLE: Photo-responsive catalysis by thymine-cyclodextrin conjugates
AUTHOR(S): Nozaki, Tomoyuki; Maeda, Michiko; Maeda, Yasushi; Kitano, Hiromi
CORPORATE SOURCE: Department Chemical Biochemical Engineering, Toyama University, Toyama, 930, Japan
SOURCE: Journal of the Chemical Society, Perkin Transactions 2: Physical Organic Chemistry (1997), (6), 1217-1220
CODEN: JCPKBH; ISSN: 0300-9580
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English

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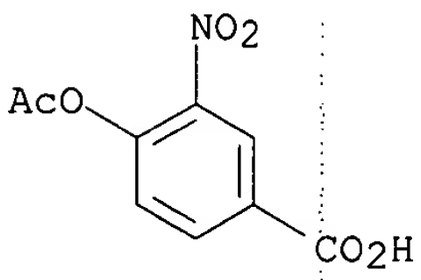
AB Conference proceedings. Primary hydroxy groups of β-cyclodextrin (β-CD) have been substituted with thymine (Thy) groups. By photo-irradiation with UV light at 280 nm, the introduced thymine groups adjacent to the CD cavity underwent reversible dimerization and the catalytic efficiency (kcat/Kdiss) of the modified CD in the hydrolyses of p-nitrophenyl acetate and m-nitrophenyl acetate increased. By further irradiation with light at 240 nm, the catalytic efficiency decreased to that of the CD-Thy conjugate due to the photo-cleavage of the thymine dimer. This phenomenon implies that the binding of guest mols. by the CD-Thy conjugate and subsequent change in the catalytic efficiency of the conjugate occurred photo-responsively. The steric effect on the acceleration or deceleration of the hydrolyses of Ph esters by CD-Thy and its derivs. is also discussed.

CC 22-4 (Physical Organic Chemistry)
Section cross-reference(s): 7, 26, 33

IT 830-03-5, p-Nitrophenyl acetate ***1210-97-5,*** 4-Acetoxy-3-nitrobenzoic acid 1523-06-4, 3-Nitrophenyl acetate
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
(photoresponsive thymine-cyclodextrin ***conjugate*** as hydrolysis catalyst for nitrophenyl esters)

IT ***1210-97-5,*** 4-Acetoxy-3-nitrobenzoic acid
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
(photoresponsive thymine-cyclodextrin ***conjugate*** as hydrolysis catalyst for nitrophenyl esters)

RN 1210-97-5 HCAPLUS
CN Benzoic acid, 4-(acetyloxy)-3-nitro- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L134 ANSWER 9 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1996:721150 HCAPLUS
DOCUMENT NUMBER: 126:108758
TITLE: Transdermal iontophoresis of sodium nonivamide acetate I. Consideration of electrical and chemical factors
AUTHOR(S): Fang, Jia-You; Huang, Yaw-Bin; Wu, Pao-Chu; Tsai, Yi-Hung
CORPORATE SOURCE: School of Pharmacy, Kaohsiung Medical College, Kaohsiung, Taiwan
SOURCE: International Journal of Pharmaceutics (1996), 143(1), 47-58
CODEN: IJPHDE; ISSN: 0378-5173
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Transdermal iontophoresis is a process which enhances skin permeation of ionized species by an elec. field as driving force. The aim of this present study was to investigate the transdermal iontophoresis of a newly

designed capsaicin derivative, sodium nonivamide acetate (SNA). Studies of elec. and physicochem. factors acting on the kinetics of in vitro iontophoresis were performed. Iontophoresis increased the transdermal penetration flux of SNA as compared to the passive diffusion in this study. Several application modes which possessed the same elec. energy had been researched. The iontophoretic flux of SNA increased following the decrease of donor buffer pH values. This trend could be due to the physiol. property of skin and electro-osmotic flow presented. Comparing the various application modes, the discontinuous on/off cyclic current mode showed higher penetration capacity than did continuous mode which was due to the intensity of effective current which would not decay for on/off cyclic application of iontophoresis. The result of the present study is particularly helpful in the development of a SNA transdermal iontophoretic delivery system.

CC 63-5 (Pharmaceuticals)

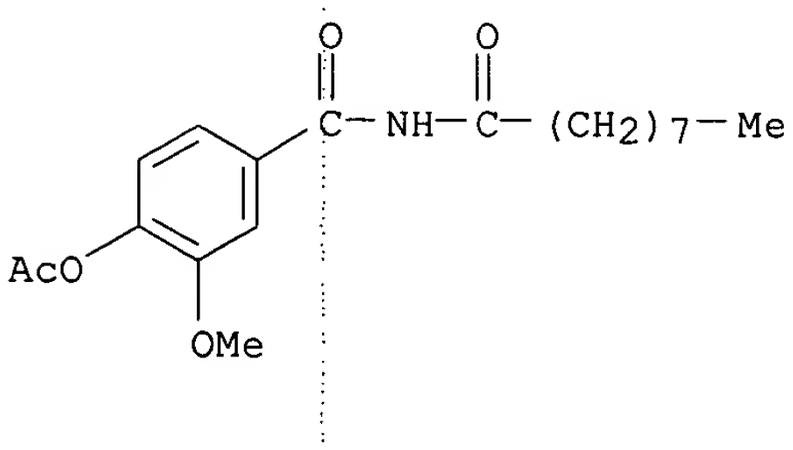
IT ***Biological transport***
Skin
(permeation; elec. and chemical factors in transdermal iontophoresis of sodium nonivamide acetate)

IT ***185993-43-5***
RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); ***BIOL (Biological study)***; PROC (Process); USES (Uses)
(elec. and chemical factors in transdermal iontophoresis of sodium nonivamide acetate)

IT ***185993-43-5***
RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); ***BIOL (Biological study)***; PROC (Process); USES (Uses)
(elec. and chemical factors in transdermal iontophoresis of sodium nonivamide acetate)

RN 185993-43-5 HCAPLUS

CN Benzamide, 4-(acetyloxy)-3-methoxy-N-(1-oxononyl)-, sodium salt (9CI) (CA INDEX NAME)



L134 ANSWER 10 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:441850 HCAPLUS
DOCUMENT NUMBER: 122:222648
TITLE: Modeling of controlled release of aspirin derivatives from human erythrocytes
AUTHOR(S): Ohsako, Masahiko; Oka, Yasuhiro; Tsuzuki, Osami; Matsumoto, Yasuhiro
CORPORATE SOURCE: Dep. Pharm., Daiichi Coll. Pharm. Sci., Fukuoka, 815,

Japan
SOURCE: Biological & Pharmaceutical Bulletin (1995), 18(2), 310-14
CODEN: BPBLEO; ISSN: 0918-6158
PUBLISHER: Pharmaceutical Society of Japan
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The transport of aspirin (ASP) and its derivs. (m- or p-acetoxybenzoic acid (m- or p-AcOHBA), o-propionyloxybenzoic acid (PrOHBA), o-butyryloxybenzoic acid (BuOHBA), o-acetoxyhippuric acid (AcOHPA), and o-acetoxy-N-benzoyl-β-alanine (AcONBA)) through human erythrocyte membrane was investigated. ASP derivs. were transported into the erythrocytes where they were hydrolyzed and then released, although the derivs. varied in the rate of transport. In different binding positions, the hydrolyzed derivs. were released rapidly in the order of p- > m- > o-AcOHBA (ASP). The rates of derivs. were accelerated by lengthening of the side chain of the acetoxyl group (BuOHBA > PrOHBA > ASP). The rate of release of o-, m- or p-AcOHBA, BuOHBA and PrOHBA was related to hydrolysis rate in erythrocytes but not to partition coefficient (log P). In different amino acids in a carboxyl group of ASP, the release of AcONBA was slower and about 2 h was required to attain equilibrium The release of AcOHPA was also slower and increased gradually during an incubation of 3 h. The rate of release of AcOHPA and AcONBA was not related to hydrolysis rate in the erythrocytes. The rates were equivalent values with the predicted values calculated by log P of tested drugs. It was suggested from these results that ASP derivs. were able to control the release from human erythrocytes.

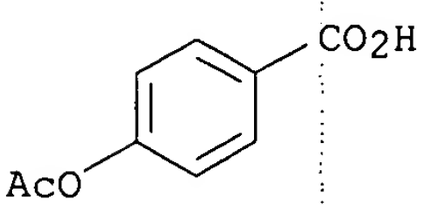
CC 63-5 (Pharmaceuticals)

IT ***Biological transport***
Drug bioavailability
Erythrocyte
Hydrolysis
Kinetics of hydrolysis
Simulation and Modeling, biological
Solution rate
(modeling of controlled release of aspirin derivs. from human erythrocytes)

IT 50-78-2, Aspirin ***2345-34-8***, p-Acetoxybenzoic acid 6304-89-8, m-Acetoxybenzoic acid
RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); ***BIOL (Biological study)***; PROC (Process); USES (Uses)
(modeling of controlled release of aspirin derivs. from human erythrocytes)

IT ***2345-34-8***, p-Acetoxybenzoic acid
RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); ***BIOL (Biological study)***; PROC (Process); USES (Uses)
(modeling of controlled release of aspirin derivs. from human erythrocytes)

RN 2345-34-8 HCAPLUS
CN Benzoic acid, 4-(acetyloxy)- (9CI) (CA INDEX NAME)



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L134 ANSWER 11 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1994:239907 HCAPLUS
DOCUMENT NUMBER: 120:239907
TITLE: Growth promotion of synthetic catecholate derivatives on Gram-negative bacteria
AUTHOR(S): Reissbrodt, Rolf; Heinisch, Lothar; Mollmann, Ute; Rabsch, Wolfgang; Ulbricht, Hermann
CORPORATE SOURCE: Robert Koch-Inst., Bundesgesundheitsamtes, Wernigerode, D-3700, Germany
SOURCE: BioMetals (1993), 6(3), 155-62
CODEN: BOMEEH; ISSN: 0966-0844
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Derivs. of benzoic acid, glyoxylic acid benzhydrazone, oxanilic acid and N-dihydroxybenzylidene-2,4,6-trimethylaminobenzene were investigated as catecholic iron chelators under iron-depleted conditions. Some of the compds. showed strong pos. reactions in the universal chemical siderophore assay (CAS): 3,4-dihydroxybenzoic acid, glyoxylic acid 2,3-dihydroxybenzhydrazone, N-3,4-dihydroxybenzylidene-2,4,6-trimethylaminobenzene. In particular these compds. also enabled removal of iron from iron-saturated transferrin. Using various siderophore indicator strains (Enterobacteriaceae, Pseudomonas aeruginosa and Aeromonas hydrophila mutants) in bioassays the following growth promotion could be detected: vicinal substituents (e.g. 2,3- or 3,4-) were essential, the carboxyamido group seen in benzoic acids and glyoxylic acid benzhydrazones contributed to a pos. reaction as well as the azomethin group (in N-3,4-dihydroxybenzylidene-2,4,6-trimethylaminobenzene). 2,3-Dihydroxybenzoic acid and the 2,3-diacetoxy substitute preferably promoted growth of Enterobacteriaceae mutants. In contrast, the 3,4-positioned compds. preferably promoted growth of P. aeruginosa mutants and A. hydrophila SB 22. Glyoxylic acid di(methoxycarbonyloxy)-benzhydrazones (2,3- and 3,4- positioned) including the 2,3-dihydroxy compound preferably enabled growth of the non-fermenters. N-3,4-dihydroxybenzylidene-2,4,6-trimethylaminobenzene supplied all mutants of Salmonella, Escherichia coli, Klebsiella, Morganella, P. aeruginosa and A. hydrophila with iron. Transport of glyoxylic acid 2,3-dihydroxybenzhydrazone depended on tonB, and required the involvement of the iron-regulated outer membrane proteins (IROMPs) FepA, Cir and Fiu.

CC 10-3 (Microbial, Algal, and Fungal Biochemistry)
Section cross-reference(s): 26

IT ***Biological transport***
(of glyoxylic acid dihydroxybenzhydrazone, by Escherichia coli, TonB and iron-regulated outer membrane proteins role in)

IT 69-72-7, Salicylic acid, biological studies 99-50-3, 3,4-Dihydroxybenzoic acid 303-38-8, 2,3-Dihydroxybenzoic acid 486-79-3, 2,3-Diacetoxybenzoic acid 500-72-1, Oxanilic acid ***58534-64-8***, 3,4-Diacetoxybenzoic acid 120370-69-6 120370-70-9 134313-88-5 141992-38-3 141992-39-4 141992-41-8 154263-79-3 154263-80-6
RL: ***BIOL (Biological study)***
(Gram-neg. bacteria growth response to, structure and iron chelation in relation to)

IT ***58534-64-8***, 3,4-Diacetoxybenzoic acid
RL: ***BIOL (Biological study)***
(Gram-neg. bacteria growth response to, structure and iron chelation in relation to)

RN 58534-64-8 HCAPLUS
CN Benzoic acid, 3,4-bis(acetyloxy)- (9CI) (CA INDEX NAME)

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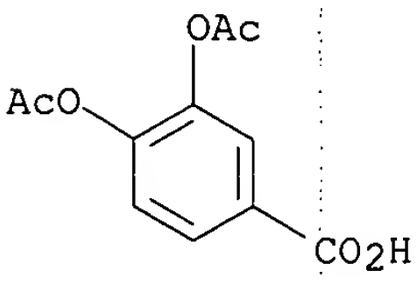

L134 ANSWER 12 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1993:665505 HCAPLUS
DOCUMENT NUMBER: 119:265505
TITLE: Preparation of [1-11C]dopamine [1-11C]p-tyramine and [1-11C]m-tyramine. Autoradiography and PET examination of [1-11C]dopamine in primates
AUTHOR(S): Schoeps, Karol Olof; Halldin, Christer; Naagren, Kjell; Swahn, Carl Gunnar; Karlsson, Per; Hall, Haakan; Farde, Lars
CORPORATE SOURCE: Dep. Psychiatry Psychol., Karolinska Hosp., Stockholm, S-10401, Swed.
SOURCE: Nuclear Medicine and Biology (1993), 20(5), 669-78
CODEN: NMBIEO; ISSN: 0883-2897
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A method for no-***carrier***-added I-11C-labeling of 3-hydroxy-, 4-hydroxy- and 3,4-dihydroxyphenethylamines is described. [11C]Dopamine, [11C]p-tyramine and [11C]m-tyramine were prepared from online produced [11C]nitromethane. Condensation of [11C]nitromethane with various protected and unprotected benzaldehydes was investigated. A one-pot 2-step reduction of the substituted 14C-labeled nitrostyrene intermediates, gave after hydrolysis and reversed-phase semi-preparative HPLC-purification the corresponding labeled amines in a total radiochem. yield of 8-20% (based on [11C]CO2 and decay-corrected). The total synthesis time was 45-50 min with a specific radioactivity of 400-1000 Ci/mmol (15-37 GBq/μmol). The radiochem. purity was >98%. [11C]Dopamine was used for in vitro autoradiog. on human post-mortem brain sections and for positron emission tomog. (PET) on Cynomolgus monkeys. Autoradiog. examination of [11C]dopamine binding on human brain section post-mortem demonstrated specific binding in the caudate putamen and the substantia nigra, regions with a dense dopaminergic innervation. Some binding was also seen in the globus pallidum, nucleus ventralis of the thalamus and in nucleus dentatus of the cerebellum, regions where the dopaminergic innervation is very low. In PET examns. of [11C]dopamine binding in Cynomolgus monkeys, there was a high uptake of radioactivity in the pituitary, the kidneys and the heart. Any passage of [11C]dopamine across the blood-brain barrier could not be demonstrated. In human PET studies, [11C]dopamine has potential as a radioligand for examination of the myocardium, pituitary and kidneys.

CC 8-9 (Radiation Biochemistry)
Section cross-reference(s): 14, 25, 34

IT 100-83-4 123-08-0, 4-Hydroxybenzaldehyde 123-11-5, reactions
591-31-1 ***878-00-2*** 34231-78-2 ***67727-64-4***
151560-64-4
RL: ***BIOL (Biological study)***
(condensation of, with carbon-11-labeled nitromethane)

IT ***878-00-2 67727-64-4***
RL: ***BIOL (Biological study)***
(condensation of, with carbon-11-labeled nitromethane)

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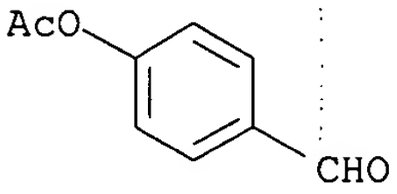
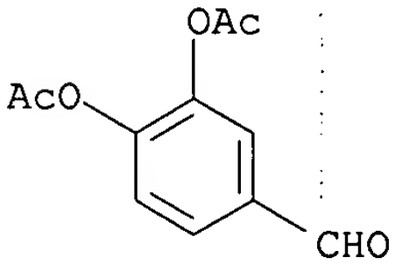
RN 878-00-2 HCAPLUS
CN Benzaldehyde, 4-(acetyloxy)- (9CI) (CA INDEX NAME)



RN 67727-64-4 HCAPLUS
CN Benzaldehyde, 3,4-bis(acetyloxy)- (9CI) (CA INDEX NAME)



L134 ANSWER 13 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1990:417437 HCAPLUS
DOCUMENT NUMBER: 113:17437
TITLE: Urinary metabolites of benzbromarone in man
AUTHOR(S): Maurer, H.; Wollenberg, P.
CORPORATE SOURCE: Inst. Pharmacol. Toxicol., Univ. Saarland, Homburg/Saar, D-6650, Germany
SOURCE: Arzneimittel-Forschung (1990), 40(4), 460-2
CODEN: ARZNAD; ISSN: 0004-4172
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 113:17437

AB Benzbromarone [(3,5-dibromo-4-hydroxyphenyl)-(2-ethyl-3-benzofuranyl)-ketone] is a widely used uricosuric drug which was reported to be metabolized by successive debromination. Recently, however, it was reported that benzbromarone is not debrominated but hydroxylated at the Et side chain. The presented paper describes further studies on the metabolism of the drug in man. The metabolites were identified in urine samples from 2 different patients intoxicated suicidally with high doses of benzbromarone after cleavage of ***conjugates***, extraction and derivatization by acetylation using gas chromatog.-mass spectrometry. The following 5 metabolites could be identified besides the unchanged benzbromarone (BB): hydroxy-alkyl-BB, oxo-BB, 2 isomers of hydroxyaryl-BB and hydroxy-methoxy-aryl-BB. Therefore, the following 2 phase I metabolic pathways can be postulated: successive oxidation of the Et side chain and one and 2-fold hydroxylation of the benzofuran ring followed by methylation of one of the hydroxy groups. Benzbromarone and its metabolites are excreted in urine partly in a ***conjugated*** form. Debrominated metabolites could not be detected, although the concns. of benzbromarone and its metabolites were very high in the urine samples studied.

CC 1-2 (Pharmacology)
IT ***127564-85-6 127564-86-7 127650-89-9 127650-90-2***
RL: ***BIOL (Biological study)***
(as benbromarone metabolite, gas chromatog.-mass spectrometry in determination

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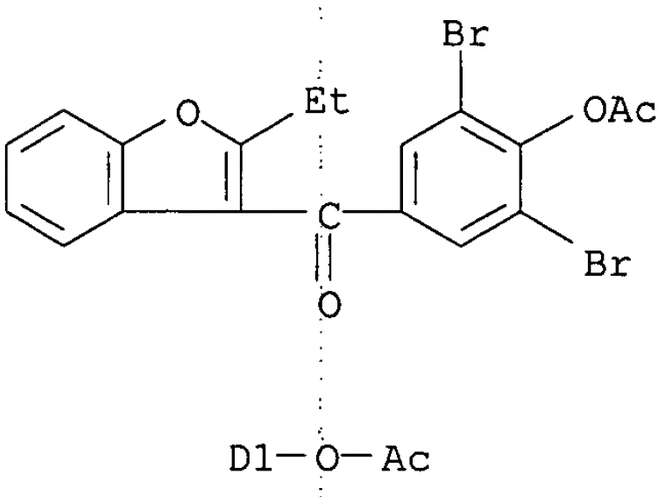
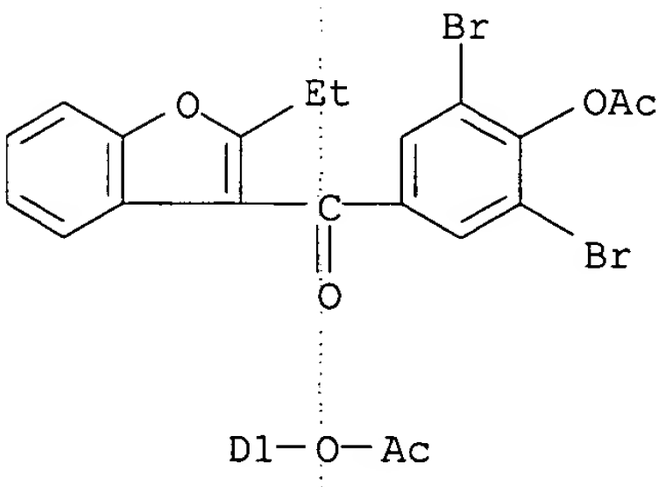
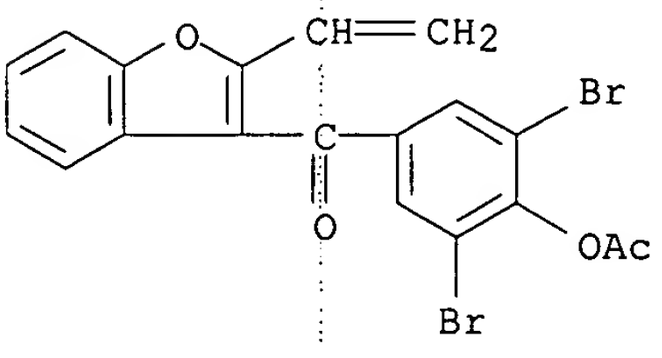
of, in urine of humans)
IT ***127564-85-6 127564-86-7 127650-89-9 127650-90-2***
RL: ***BIOL (Biological study)***
(as benbromarone metabolite, gas chromatog.-mass spectrometry in determination
of, in urine of humans)
RN 127564-85-6 HCAPLUS
CN Methanone, [4-(acetyloxy)-3,5-dibromophenyl][(acetyloxy)-2-ethyl-3-benzofuranyl]- (9CI) (CA INDEX NAME)



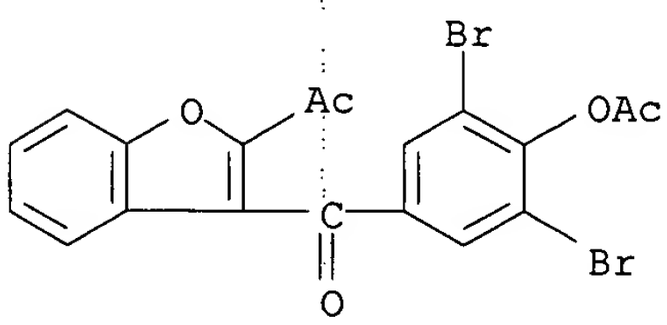
RN 127564-86-7 HCAPLUS
CN Methanone, [4-(acetyloxy)-3,5-dibromophenyl][ar-(acetyloxy)-2-ethyl-ar-methoxy-3-benzofuranyl]- (9CI) (CA INDEX NAME)



RN 127650-89-9 HCAPLUS
CN Methanone, [4-(acetyloxy)-3,5-dibromophenyl](2-ethenyl-3-benzofuranyl)- (9CI) (CA INDEX NAME)



RN 127650-90-2 HCAPLUS
CN Ethanone, 1-[3-[4-(acetyloxy)-3,5-dibromobenzoyl]-2-benzofuranyl]- (9CI) (CA INDEX NAME)



L134 ANSWER 14 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1990:180567 HCAPLUS
DOCUMENT NUMBER: 112:180567
TITLE: Flexible, impact-resistant liquid-crystal polyester blends
INVENTOR(S): Kishimoto, Yasushi; Shinjo, Yuji
PATENT ASSIGNEE(S): Asahi Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01182360	A2	19890720	JP 1988-4744	19880114
JP 05012391	B4	19930217		
PRIORITY APPLN. INFO.:			JP 1988-4744	19880114

AB Compns. with good flexibility, elongation, and impact resistance comprise (A) 70-99 parts anisotropic melt-forming liquid-crystalline polyester comprising
CORO 20-80, COR1CO 10-40, and OR2O 10-40 mol% (R = C6-15 aromatic residue; R1 = C6-15 aromatic residue, C4-20 alicyclic residue, C1-20 aliphatic residue; R2 =
C6-15 aromatic residue, C4-20 alicyclic residue, C2-20 aliphatic residue) and (B) 1-30 parts hydrogenated copolymer comprising aromatic vinyl polymer block and conjugated diene polymer block. Thus, a blend of 92 parts 40:30:30 p-acetoxybenzoic acid-4,4'-diacetoxyisopropylidenediphenyl-terephthalic acid copolymer (intrinsic viscosity at 30° in a 50:50 CHCl2CHCl2-pentafluorophenol 0.85) and 8 parts hydrogenated (99%) 20:80 styrene-butadiene block copolymer (I) (number-average mol. weight 53,000) was injection molded at 300° to give liquid-crystal test pieces with tensile strength 830 kg/cm2, elongation 82%, flexural modulus 24,900 kg/cm2, and notched Izod impact strength 26 kg-cm/cm, vs. 920, 25, 28,000, and 4.1, resp., without I.
IC ICM C08L067-00
ICI C08L067-00, C08L053-02
CC 37-3 (Plastics Manufacture and Processing)
IT ***52237-98-6P 70368-77-3P 118738-21-9P 124996-78-7P 124996-79-8P 124996-80-1P***
RL: PREP (Preparation)
(manufacture of liquid-crystalline, blends with vinyl-***conjugated*** diene block copolymer, flexible, impact-resistant)

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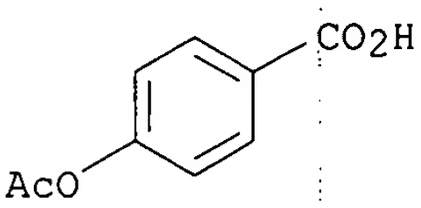
IT ***52237-98-6P 70368-77-3P 118738-21-9P 124996-78-7P 124996-79-8P 124996-80-1P***
RL: PREP (Preparation)
(manufacture of liquid-crystalline, blends with vinyl-***conjugated*** diene block copolymer, flexible, impact-resistant)

RN 52237-98-6 HCAPLUS
CN 1,4-Benzenedicarboxylic acid, polymer with 4-(acetyloxy)benzoic acid and 1,2-ethanediol (9CI) (CA INDEX NAME)

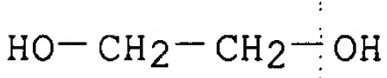
CM 1

CRN 2345-34-8
CMF C9 H8 O4



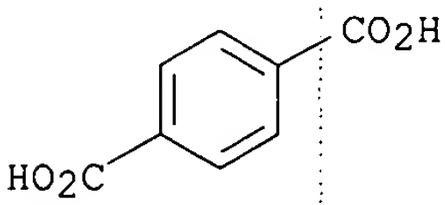
CM 2

CRN 107-21-1
CMF C2 H6 O2



CM 3

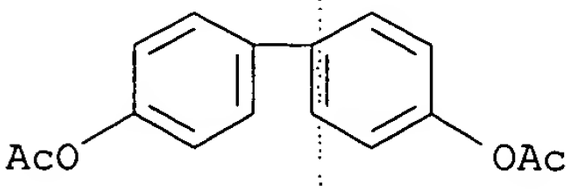
CRN 100-21-0
CMF C8 H6 O4



RN 70368-77-3 HCAPLUS
CN 1,4-Benzenedicarboxylic acid, polymer with 4-(acetyloxy)benzoic acid and [1,1'-biphenyl]-4,4'-diyl diacetate (9CI) (CA INDEX NAME)

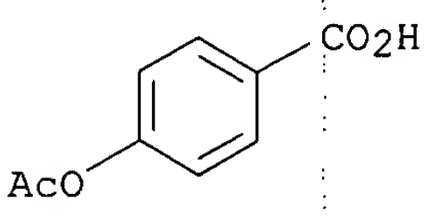
CM 1

CRN 32604-29-8
CMF C16 H14 O4



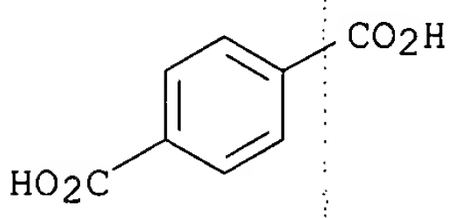
CM 2

CRN 2345-34-8
CMF C9 H8 O4



CM 3

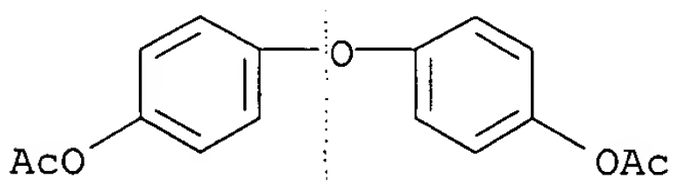
CRN 100-21-0
CMF C8 H6 O4



RN 118738-21-9 HCAPLUS
CN 1,4-Benzenedicarboxylic acid, polymer with 4-(acetyloxy)benzoic acid, 6-(acetyloxy)-2-naphthalenecarboxylic acid and oxydi-4,1-phenylene diacetate (9CI) (CA INDEX NAME)

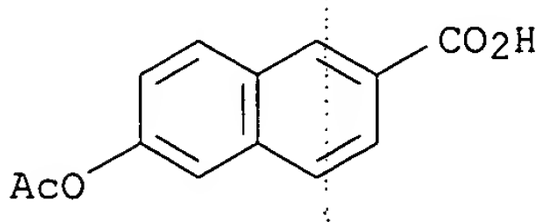
CM 1

CRN 23446-80-2
CMF C16 H14 O5



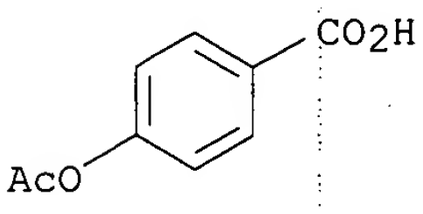
CM 2

CRN 17295-26-0
CMF C13 H10 O4



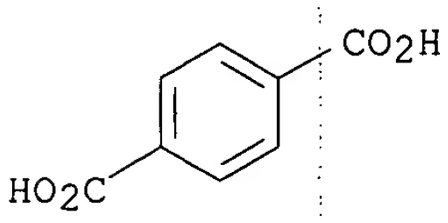
CM 3

CRN 2345-34-8
CMF C9 H8 O4



CM 4

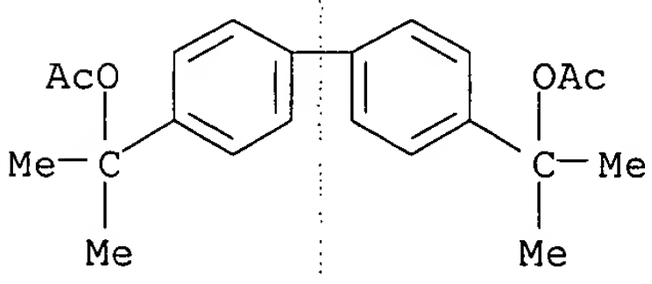
CRN 100-21-0
CMF C8 H6 O4



RN 124996-78-7 HCAPLUS
CN 1,4-Benzenedicarboxylic acid, polymer with 4-(acetyloxy)benzoic acid and α,α,α',α'-tetramethyl[1,1'-biphenyl]-4,4'-diylbis(methylene) diacetate (9CI) (CA INDEX NAME)

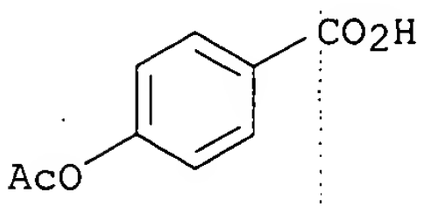
CM 1

CRN 124996-77-6
CMF C22 H26 O4



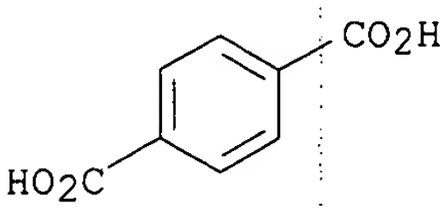
CM 2

CRN 2345-34-8
CMF C9 H8 O4



CM 3

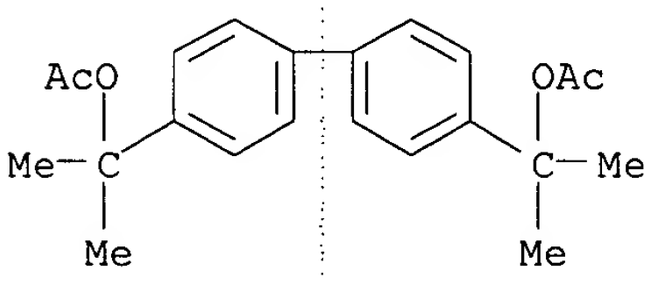
CRN 100-21-0
CMF C8 H6 O4



RN 124996-79-8 HCAPLUS
CN 1,3-Benzenedicarboxylic acid, polymer with 4-(acetyloxy)benzoic acid, 1,4-benzenedicarboxylic acid, 1,2-ethanediol and α,α,α',α'-tetramethyl[1,1'-biphenyl]-4,4'-diylbis(methylene) diacetate (9CI) (CA INDEX NAME)

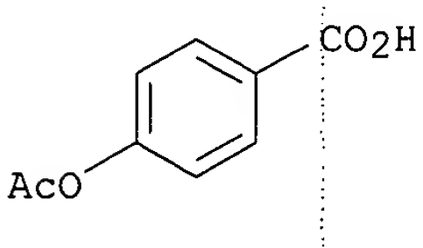
CM 1

CRN 124996-77-6
CMF C22 H26 O4



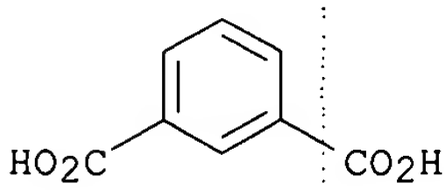
CM 2

CRN 2345-34-8
CMF C9 H8 O4



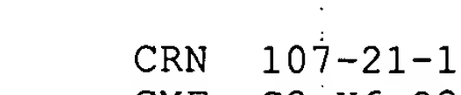
CM 3

CRN 121-91-5
CMF C8 H6 O4



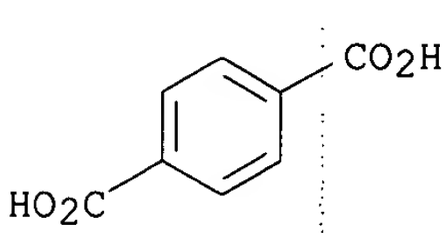
CM 4

CRN 107-21-1
CMF C2 H6 O2



CM 5

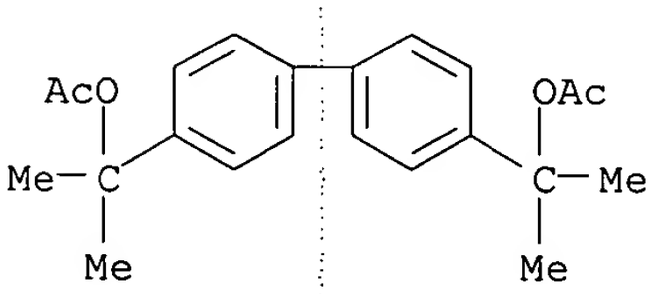
CRN 100-21-0
CMF C8 H6 O4



RN 124996-80-1 HCAPLUS
CN 1,3-Benzenedicarboxylic acid, polymer with 4-(acetyloxy)benzoic acid, 6-(acetyloxy)-2-naphthalenecarboxylic acid, 1,4-benzenedicarboxylic acid, 1,2-ethanediol and α,α,α',α'-tetramethyl[1,1'-biphenyl]-4,4'-diylbis(methylene) diacetate (9CI) (CA INDEX NAME)

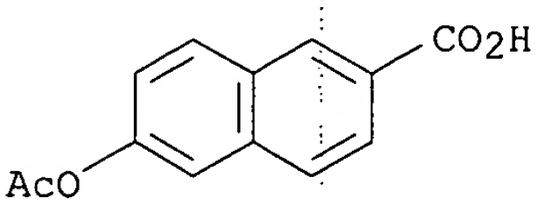
CM 1

CRN 124996-77-6
CMF C22 H26 O4



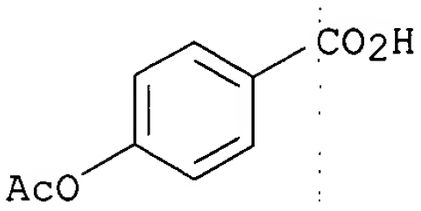
CM 2

CRN 17295-26-0
CMF C13 H10 O4



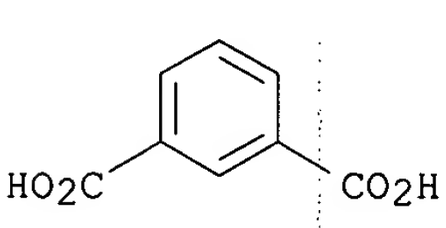
CM 3

CRN 2345-34-8
CMF C9 H8 O4



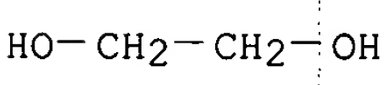
CM 4

CRN 121-91-5
CMF C8 H6 O4



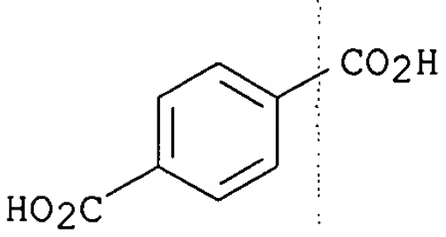
CM 5

CRN 107-21-1
CMF C2 H6 O2



CM 6

CRN 100-21-0
CMF C8 H6 O4



L134 ANSWER 15 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1989:628958 HCAPLUS
DOCUMENT NUMBER: 111:228958
TITLE: ***Conjugates*** of trans-coniferyl alcohol in propolis and its sources
AUTHOR(S): Sokolov, I. V.; Torgov, I. V.
CORPORATE SOURCE: NPO "Vitaminy", Moscow, USSR
SOURCE: Khimiya Prirodnykh Soedinenii (1989), (3), 319-24
CODEN: KPSUAR; ISSN: 0023-1150
DOCUMENT TYPE: Journal
LANGUAGE: Russian

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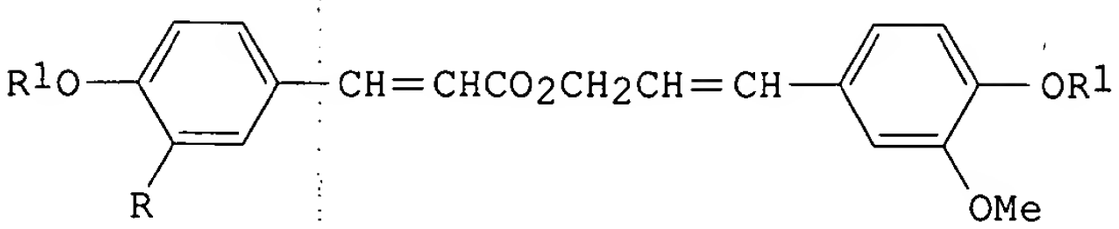
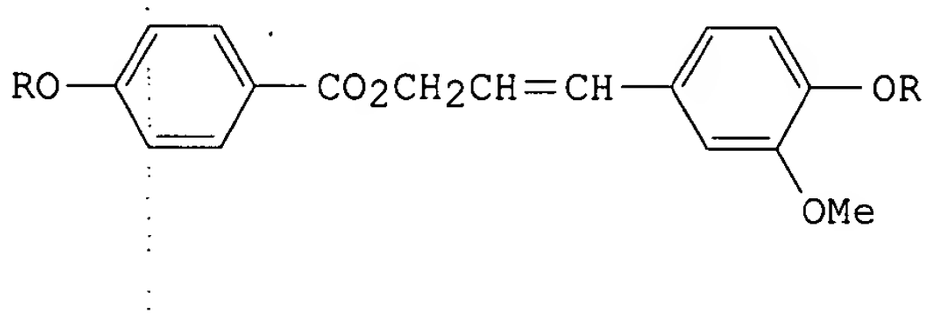
OTHER SOURCE(S): CASREACT 111:228958
GI



I, R=Ac, R1=H
II, R=R1=Ac
III, R=R1=H
IV, R=H, R1=Ac



V, R=H
VI, R=Ac

AB TLC of 22 g buds and 28 g propolis from Populus tremula afforded I 12.5 and 24.5 mg, II 20.0 and 60.0 mg, III 10.4 and 15.5 mg, IV 25.0 and 35.5 mg, V 5.0 and 11.6 mg, and VI 10.8 and 20.3 mg, resp. The trans-coniferyl ferulate, p-coumarate, and p-hydroxybenzoate are new natural compds. The structures of I-VI were determined by mass, NMR, and IR spectroscopy.

CC 11-1 (Plant Biochemistry)
Section cross-reference(s): 26

ST poplar bud propolils coniferyl ***conjugate;*** hydroxybenzoate coniferyl poplar bud propolis; coumarate coniferyl poplar bud propolis; ferulate coniferyl poplar bud propolis

IT Propolis
(trans-coniferyl alc. ***conjugates*** from poplar buds and)

IT Plant tissue
(bud, trans-coniferyl alc. ***conjugates*** from poplar propolis and)

IT Poplar
(P. tremula, trans-coniferyl alc. ***conjugates*** from buds and propolis from)

IT 123821-71-6 ***123821-72-7*** 123842-11-5
RL: ***BIOL (Biological study)***
(from poplar buds and propolis)

IT 32811-40-8D, trans-Coniferyl alcohol, ***conjugates*** 67638-40-8 123821-69-2 123821-70-5
RL: BIOL (Biological study)
(from poplar buds and propolis, isolation and structure of)

IT ***123821-72-7***
RL: ***BIOL (Biological study)***
(from poplar buds and propolis)

RN 123821-72-7 HCAPLUS

CN Benzoic acid, 4-(acetyloxy)-, 3-[4-(acetyloxy)-3-methoxyphenyl]-2-propenyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

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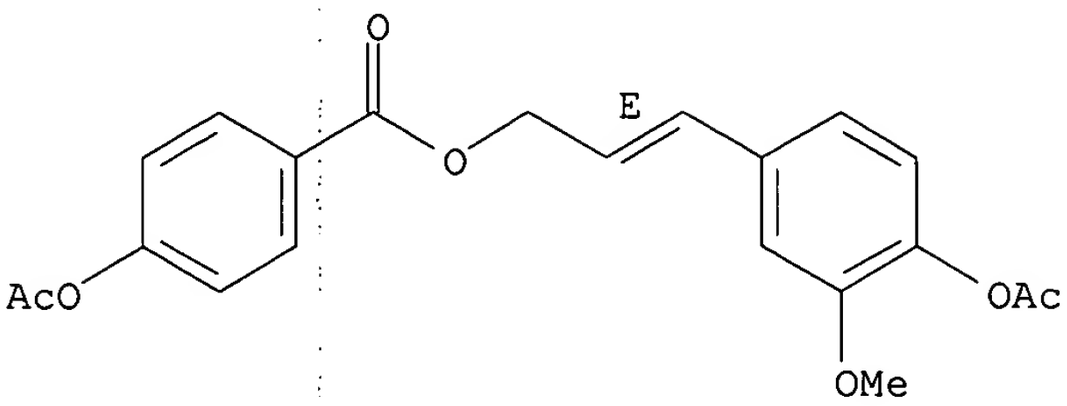
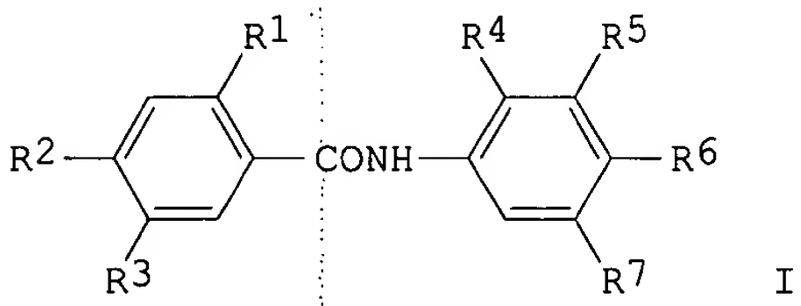


L134 ANSWER 16 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1983:137308 HCAPLUS
DOCUMENT NUMBER: 98:137308
TITLE: Inhibition of histidine decarboxylase and tumor promoter-induced arachidonic acid release by lecanoric acid analogs
AUTHOR(S): Umezawa, Kazuo; Muramatsu, Shigemi; Ishizuka, Masaaki; Sawa, Tsutomu; Takeuchi, Tomio; Matsushima, Taijiro
CORPORATE SOURCE: Inst. Med. Sci., Univ. Tokyo, Tokyo, 108, Japan
SOURCE: Biochemical and Biophysical Research Communications (1983), 110(3), 733-9
CODEN: BBRCA9; ISSN: 0006-291X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB Lecanoric acid analogs (I; R1 = OH, OAc; R2 = H, OAc, Me, F; R3 = H, Cl; R4 = H, OH, Br; R5 = H, OH, Cl, Me, NO2; R6 = H, CO2H, Cl, OH, CO2Me, OMe; R7 = H, Cl, Me, NO2) inhibited histidine decarboxylase [9024-61-7] and arachidonic acid [506-32-1] release from the ***cell membrane*** phospholipids induced a tumor promoter, 12-O-tetradecanoylphorbol-13-acetate [16561-29-8]. But the compds. did not inhibit cellular binding of phorbol-12,13-dibutyrate [37558-16-0]. Lecanoric acid analogs also inhibited prostaglandin synthetase [9055-65-6] and delayed-type hypersensitivity responses against sheep red blood cells in mice. Thus, lecanoric acid analogs antagonized several enzymic and cellular effects of the tumor promoter.

CC 1-6 (Pharmacology)

IT 480-56-8 480-56-8D, analogs 3679-63-8 55411-42-2 55411-48-8 55411-56-8 55797-49-4 57976-98-4 62918-71-2 65482-90-8 85120-54-3 ***85120-55-4*** 85120-56-5
RL: ***BIOL (Biological study)***
(histidine decarboxylase and tumor promoter-induced arachidonic acid release inhibition by)

IT ***85120-55-4***
RL: ***BIOL (Biological study)***

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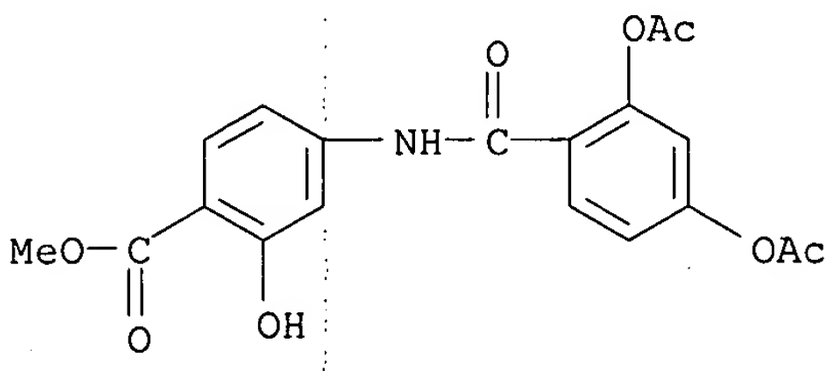
(histidine decarboxylase and tumor promoter-induced arachidonic acid release inhibition by)

RN 85120-55-4 HCAPLUS

CN Benzoic acid, 4-[[2,4-bis(acetyloxy)benzoyl]amino]-2-hydroxy-, methyl ester (9CI) (CA INDEX NAME)



L134 ANSWER 17 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1981:134430 HCAPLUS

DOCUMENT NUMBER: 94:134430

TITLE: Preparation of phenol-protein ***conjugates*** by reaction of proteins with acetylated hydroxybenzoic acid nitrophenyl esters

AUTHOR(S): Wagner, G.; Hanfeld, V.

CORPORATE SOURCE: Sekt. Biowiss., Karl-Marx-Univ. Leipzig, Leipzig, DDR-7010, Ger. Dem. Rep.

SOURCE: Pharmazie (1980), 35(12), 739-41
CODEN: PHARAT; ISSN: 0031-7144

DOCUMENT TYPE: Journal

LANGUAGE: German

AB The phenolic hydroxyls of salicylic, β-resorcylic, and gentisic acids were acylated and the carboxyl groups of the acids were esterified with p-nitrophenol in the presence of DCCD. The resulting compds. reacted with free amino groups of human serum albumin and bovine γ-globulin; dialysis of the modified proteins at pH 8.0-9.0 to sep. unreacted material was accompanied by deacetylation to give phenolic protein derivs. Fifty-90% of the reagent in a given reaction mixture reacted with protein. Extents of modification ranged from 7.9 mol gentisyl residues/mol γ-globulin to 59.4 mol salicyl residues/mol albumin.

CC 6-3 (General Biochemistry)
Section cross-reference(s): 15

ST phenol protein ***conjugate*** prepn

IT 17374-48-0P 77008-85-6P 77008-86-7P 77008-87-8P ***77008-88-9P***
RL: BSU (Biological study, unclassified); MFM (Metabolic formation); ***BIOL (Biological study)***; FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, from acetoxybenzoate at alkaline pH)

IT ***77008-88-9P***
RL: BSU (Biological study, unclassified); MFM (Metabolic formation); ***BIOL (Biological study)***; FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, from acetoxybenzoate at alkaline pH)

RN 77008-88-9 HCAPLUS

CN Benzoic acid, 4-(acetyloxy)-2-hydroxy-, 4-nitrophenyl ester (9CI) (CA INDEX NAME)

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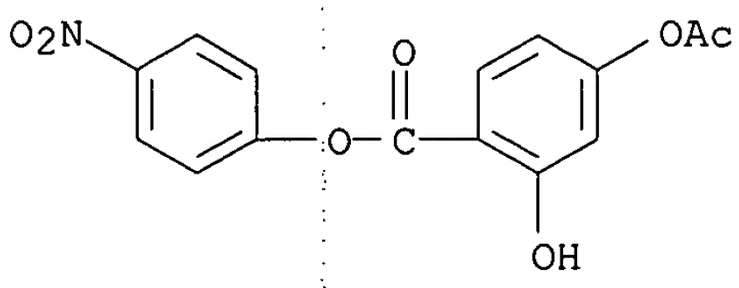

L134 ANSWER 18 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1975:508150 HCAPLUS
DOCUMENT NUMBER: 83:108150
TITLE: Cannabinoids. Influence on neurotransmitter uptake in rat brain synaptosomes
AUTHOR(S): Banerjee, Shailesh P.; Snyder, Solomon H.; Mechoulam, Raphael
CORPORATE SOURCE: Sch. Med., Johns Hopkins Univ., Baltimore, MD, USA
SOURCE: Journal of Pharmacology and Experimental Therapeutics (1975), 194(1), 74-81
CODEN: JPETAB; ISSN: 0022-3565
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Δ1-Tetrahydrocannabinol (Δ1-THC)(I) [1972-08-3] inhibited the accumulation of norepinephrine (NE) [51-41-2] and serotonin (5-HT) [50-67-9] into hypothalamic prepns. and dopamine (DA) [51-61-6] into the corpus striatum with Ki values of about 12 to 25 μM while γ-aminobutyric acid (GABA) [56-12-2] uptake into cerebral cortical prepns. was inhibited to a lesser extent (Ki = 140 μM). The affinities of Δ6-THC [5957-75-5], 7-hydroxy-Δ1-THC [29541-93-3], 7-hydroxy-Δ6-THC [28646-40-4] and cannabidiol [13956-29-1] for 5-HT, NE and GABA transports were similar to values for Δ1-THC, while cannabigerol [2808-33-5], cannabinol [521-35-7] and Δ6-THC-7-oic acid [39690-06-7] had substantially less affinity. Thus, hydroxylation of C-7 in Δ6-THC did not alter inhibitory potency, but its oxidation to an acid and aromatization of ring A greatly reduced affinity. The hydroxyl at C-31 of ring C was critical for inhibition of NE, 5-HT and GABA uptake, since its acetylation or methylation abolished activity. Inhibition of NE, DA, 5-HT and GABA uptake by all cannabinoids examined was noncompetitive.
CC 1-3 (Pharmacodynamics)
IT ***Biological transport***
(of neurotransmitters, by brain, cannabinoids effect on)
IT 521-35-7 1242-67-7 1972-08-3 5957-75-5 13956-29-1 23132-17-4 25654-31-3 28646-40-4 29541-93-3 36403-68-6 39690-06-7 51263-83-3 ***56420-97-4***
RL: ***BIOL (Biological study)***
(neurotransmitter transport by brain synaptosome response to)
IT ***56420-97-4***
RL: ***BIOL (Biological study)***
(neurotransmitter transport by brain synaptosome response to)
RN 56420-97-4 HCAPLUS
CN Benzoic acid, 2,4-bis(acetyloxy)-3-[(1R,6R)-3-methyl-6-(1-methylethenyl)-2-cyclohexen-1-yl]-6-pentyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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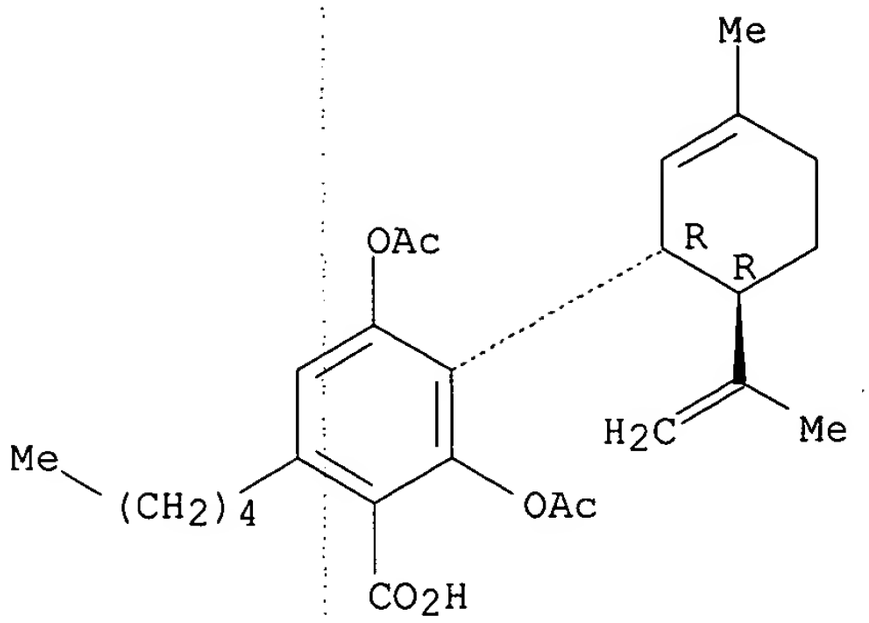
Me
OAc
R
R
H2C
Me
Me
(CH2)4
OAc
CO2H